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34th

ANNUAL REPORT

OF THE

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FOR THE YEAR ENDING JUNE 30, 1954.

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"As is"

MASS OFFICIALS

STATE HOUSE, BOSTON

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THE COMMONWEALTH OF MASSACHUSETTS

Thirty-fourth Annual Report

of the

Department of Public Works

Year ending June 30, 1954

To the Honorable Senate and House of Representatives of the Commonwealth of  
Massachusetts:

In accordance with the provisions of the law, I have the honor, as  
Commissioner of Public Works, to submit the thirty-fourth annual report  
of the Department of Public Works for the year ending June 30, 1954.

The organization of the Department as defined in Chapter 16, General  
Laws, Tercentenary Edition, was as follows:

Commissioner of Public Works:

JOHN A. VOLPE

Associate Commissioner:

BENJAMIN H. GROUT to  
July 31, 1953(resigned)  
FRED B. DOLE, beginning  
July 31, 1953

Associate Commissioner:

FRANCIS V. MATERA to  
February 4, 1954 (term  
expired)  
LEWIS J. FRITZ, beginning  
February 4, 1954

Director, Division of Waterways:

RODOLPHE G. BESSETTE

Director, Division of Public Beaches:

HARRY E. FRASER  
beginning October 1, 1953

The engineering and clerical staff of the Department was as follows:

Chief Engineer	H. GORDON GRAY
Executive Assistant to the Commissioner and the Chief Engineer	CHARLES WELLER (resigned March 31, 1954)
Executive Assistant (Projects)	JOHN J. McCLOSKEY
Executive Assistant (Construction)	WILLIAM C. TUTTLE
Bridge Engineer	JOHN C. RUNDLETT
Highway Engineer	RAYMOND W. COBURN
Highway Engineer	GEORGE H. DELANO (retired April 30, 1954)
Highway Engineer	JAMES E. LAWRENCE (retired June 30, 1954)
Highway Engineer (Acting)	G. GORDON LOVE
Highway Traffic Engineer	EDWARD J. MCCARTHY

District Highway Engineers:-

District No. 1, WILLIAM J. GOGGINS:- The cities and towns of Berkshire County; the towns of Worthington, Middlefield and Huntington in Hampshire County and the towns of Chester, Montgomery, Russell, Blandford and Tolland in Hampden County.

District No. 2, CYRIL B. RAYMOND,\*- CHARLES M. DAMON\*\*- The cities and towns of Franklin County; the cities and towns of Hampshire County, except the towns of Huntington, Middlefield and Worthington; the cities and towns of Hampden County, except the towns of Blandford, Brimfield, Chester, Holland, Monson, Montgomery, Palmer, Russell, Tolland and Wales.

District No. 3, FREDERICK W. GUERIN - - The cities and towns of Worcester County (including the town of Harvard for construction only) and the towns of Brimfield, Holland, Monson, Palmer and Wales in Hampden County.

District No. 4, FRED D. SABIN: The cities and towns of Middlesex County (including the cities of Malden and Melrose, for construction only); the towns of Wellesley and Brookline in Norfolk County; the town of Harvard, for maintenance only, in Worcester County and sections of the city of Boston in Suffolk County.

\*retired April 2, 1954

\*\* beginning April 12, 1954



District No. 5, CHARLES A. FRITZ:- The cities and towns of Essex County; the cities of Malden and Melrose (for maintenance only) in Middlesex County; the town of Winthrop and the cities of Chelsea, Revere and sections of Boston in Suffolk County.

District No. 6, FRANK A. CHASE:- The cities and towns of Norfolk County, except the town of Cohasset; the cities and towns of Bristol County; sections of the city of Brockton in Plymouth County and of the city of Boston in Suffolk County.

District No. 7, LEWIS R. SELLEW:- The cities and towns of Plymouth County (including sections of the city of Brockton); the town of Cohasset in Norfolk County and the towns of Barnstable, Dukes and Nantucket Counties.

District Waterways Engineer:

EVERETT N. HUTCHINS (died  
October 26, 1953)  
ROBERT B. MACKINNON, beginning  
August 31, 1953

Department Business Agent

FRED FAIR (retired June 30, 1954)

Department Secretary

MARY E. McMORROW

The Department of Public Works has in this fiscal year awarded contracts with a bid value of over \$60,000,000 and has added over 40 miles of new State highway for a new all time high of 2167.47 miles.

The first complete inventory of every mile of this total has been compiled, and a program of reconstruction and repair based on priority needs has been established.

The development and expansion of our highway system under the Bond Issue Programs has been speeded up, and with the submission of the Department's "Three Year Program", which reported on the progress of previous Bond Issues and the detailed scheduling of needed improvements, the authorization of an additional \$150,000,000 Bond Issue was passed by the Legislature in May.

The National Highway Users Conference honored the Department for the presentation of the "Three Year Program", as a progress report and for its specific contemplated program, by awarding its Golden Milestone to us.

Expenditures by the Department have been in excess of \$95,500,000 for this fiscal period continuing the acceleration of the highway program.

Progress on the Central Artery was continued with the start of steel erection between Charles River and High Street, in seven sections, at a cost of \$13,421,000 and by an engineer consultant contract for extension of the expressway to the vicinity of Southampton St. and Massachusetts Ave.

Many major projects were placed under contract, and work started, toward the relief of traffic congestion and the elimination of the hazards of railroad grade crossings. Some of these projects are; Worcester, Lincoln Square; Route 5 in the Springfield Area; Route 128 extension from the Worcester Turnpike through Needham, Dedham, Westwood.

The resurfacing program was continued with forty miles of state highway and nine miles of town roads receiving a surface coat of bituminous concrete.

With the growing total of highway miles the problems of maintenance multiply and contract work is playing an increasing part in the solution. Moving contracts covering 229 miles of highway were awarded and 92 hours of contract Helicopter spraying were flown in the suppression of Dutch Elm Disease.

Roadside Rest Areas have been maintained and the program expanded with ready acceptance by the public of these facilities.

During the year the Highway Administration Building, Worcester was completed and the District Organization moved into this, the first state-owned District Office Building.

Maintenance Foreman's Garages were constructed in Rowley and Orange.

The Materials Testing Division moved into its new quarters in the Laboratory Building, Wellesley and construction has been nearly completed on the Maintenance and Traffic Depot at the same location.

The Department furnished much equipment and the use of many men in relief of the tornado destruction in Worcester County also contracted for the removal of 298 tornado damaged trees and stumps and has planted 250 in replacement.

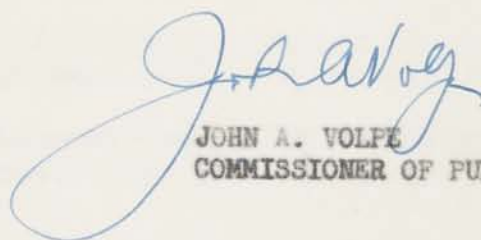
The State Aid program has involved the preparation and supervision of contracts for road construction, in cities and towns, of about \$7,500,000 values.

Safety and convenience for the travelling public are incorporated in new and proposed highways by the Traffic Division by the use of new features in design and traffic control.

On October 1, 1953 a Division of Beaches was activated in the Department; planning of beach improvements and developments is being advanced.



A DETAILED REPORT OF THE ACTIVITIES OF THE YEAR IS PRESENTED  
HEREWITH.

A handwritten signature in blue ink, appearing to read "J. A. Volpe", with a large, sweeping flourish extending from the bottom left of the signature.

JOHN A. VOLPE  
COMMISSIONER OF PUBLIC WORKS

~~SPECIAL~~ ACTS OF THE GENERAL COURT FOR 1954

PERTAINING TO THE DEPARTMENT OF PUBLIC WORKS

Chapter

- 151 An act designating the bridge on Grove Street on Route 8 in the town of Adams as the Walter Bednarz and Sterling Burnette Bridge.
- 159 An act designating the Northeast Expressway in the city of Chelsea as the Father Cyprian Adamski Memorial Highway.
- 206 An act providing for the construction by the Department of Public Works of a footbridge at Beaver Street in the city of Revere.
- 219 An act relative to the replacement and resurfacing of State highways.
- 221 An act designating a bridge connecting the towns of Erving and Montague as the Erving-Montague Veterans Memorial Bridge.
- 289 An act providing that plans and data pertaining to certain highway bridges be turned over to the Department of Public Works.
- 298 An act to exempt the lifeguard staff in the Division of Public Beaches of the Department of Public Works from the operation of the Civil Service law.
- 301 An act transferring a certain employee of the Department of Conservation to the Division of Public Beaches in the Department of Public Works.
- 379 An act authorizing and directing the Department of Public Works to make certain improvements in the Saugus River in the Towns of Wakefield, Lynnfield and Saugus.
- 403 An act providing for an accelerated highway program.
- 419 An act relative to the care and maintenance of certain areas under the control of the Department of Natural Resources, the apportionment of the costs of the Division of Public Beaches in the Department of Public Works, and establishing the State recreation areas fund.
- 466 An act providing for the maintenance of a bridge over the Connecticut River.
- 472 An act authorizing the Department of Public Works to acquire Scusset Beach in the Towns of Sandwich and Bourne.

## Chapter

- 480      An act authorizing and directing the Department of Public Works to make repairs to the stores building and cold storage building at the State fish pier in Gloucester harbor.
- 491      An act providing for the abolition by the Department of Public Works of the grade crossing over the Boston and Maine Railway at Moody and Carter Streets in the City of Waltham.
- 524      An act providing for the distribution of State funds for the sanding of public ways in small towns.
- 534      An act authorizing the Department of Public Works to acquire certain land in the Town of Belmont for the purpose of constructing a District Office Administrative Building.
- 554      An act authorizing and directing the Department of Public Works to make repairs and alterations to the Shaker Mill Dam on the Williams River in the town of West Stockbridge and authorizing the said town to accept transfer of title to certain land therein.
- 555      An act authorizing the Metropolitan District Commission to rebuild the Prison Point Bridge.
- 568      An act transferring certain powers and duties of the Port of Boston Commission to the Department of Public Works.
- 579      An act providing for the dredging and improvement by the Department of Public Works of certain brooks in the towns of Bedford and Lexington.
- 596      An act providing for improvements to the outlet brook from Musquashiat Pond in the town of Scituate.
- 604      An act providing for the construction of a bridge over the Jones River in the town of Kingston.
- 638      An act providing for the acquisition by the Commonwealth of all rights in certain tidewaters in the City of Boston and for a maintenance of certain bridges over the same without a draw.
- 659      An act designating a certain street in Somerville as A. Alfred Lombardi Street.



## SPECIAL REPORTS TO THE LEGISLATURE

The Department was authorized and directed by the Legislature to make certain investigations, and the reports thereon were made as follows:

Special report of the Department of Public Works relative to providing for the landscaping of the John F. Fitzgerald Expressway, elimination of traffic hazards at Dead Man's Curve in Wayland, distribution of State funds for the repairs and improvement of public ways in small towns, reconstruction of certain portions of Route 143, increased grants for the maintenance and improvement of local roads and removal of ice, distribution of State funds for the sanding of public ways in small towns, resurface and widen Route 9 in the towns of Hadley and Amherst, reconstruct Route 140 from center of Wrentham to Mansfield town line, reconstruct certain roads in the vicinity of North Pond in Florida and Savoy and construct a parking lot on shores of North Pond, relocate and reconstruct a certain way and bridges across the Sudbury River in Wayland, construction of a high level bridge over the Merrimack River between North Andover and Lawrence, construction or reconstruction by the Department of Public Works of driveways or entrances to private property, streets or roads within the limits of State highway layouts. Report made December 1, 1953 by the Department of Public Works under Chapter 51, Resolves of 1953 (H-2723 of 1953).

Special report of the Department of Public Works on its investigation relative to improving Fairhaven Harbor. Report made December 2, 1953 by the Department of Public Works under Chapter 71, Resolves of 1953 (S-757 of 1953).

Special report of the Department of Public Health, the Department of Public Works and the State Reclamation Board relative to the improvement of conditions at Musquashiat Pond in the town of Scituate. Report made December 2, 1953, by the Department of Public Works under Chapter 40, Resolves of 1953 (H-2323 of 1953).

Special report of the Department of Public Works on its investigation relative to the proposed pier extension at the State Fish Pier in the city of Gloucester. Report made December 2, 1953, by the Department of Public Works under Chapter 81, Resolves of 1953 (H-2855 of 1953).

Special report of the Department of Public Works relative to an investigation and study of flood control in the Connecticut River Area in the towns of Hadley and Clarksburg. Report made December 2, 1953, by the Department of Public Works under Chapter 69 of the Resolves of 1953 (H-2738 of 1953).



SPECIAL REPORTS TO THE LEGISLATURE (Continued)

-2-

Special report of the Department of Public Works relative to Fort Point Channel and certain territories adjacent thereto and to certain proposed waterways projects. Report made December 2, 1953, by the Department of Public Works under Chapter 72, Resolves of 1953 (S-759 of 1953).

Special report of the Department of Public Works on its investigation relative to certain ponds and lakes. Report made December 2, 1953, by the Department of Public Works under Chapter 83 of the Resolves of 1953 (H-2842 of 1953).

Report of the Department of Public Health and the Department of Public Works relative to the improvement of conditions at Furnace Pond in the town of Pembroke. Report made December 1953, by the Department of Public Health and the Department of Public Works under Chapter 39 of the Resolves of 1953 (H-747 of 1953).

Special report of the Department of Public Works relative to a right of way for public access to Four Mile Pond in the town of Boxford. Report made December 14, 1953, by the Department of Public Works under Section 18A of Chapter 91 of the General Laws.

Special report of the Department of Public Works relative to a right of way for public access to Snow's Pond in the town of Rochester. Report made December 14, 1953 under Section 18A of Chapter 91 of the General Laws.

Special report of the Department of Public Works relative to a right of way for public access to Flax Pond in the city of Lynn. Report made December 14, 1953 under Section 18A of Chapter 91 of the General Laws.

Special report of the Department of Public Works relative to a right of way for public access to Gallows Pond in the town of Plymouth. Report made December 14, 1953 under Section 18A of Chapter 91 of the General Laws.

## RECOMMENDATIONS FOR LEGISLATION

The Commissioner of Public Works presented to the State Secretary on November 4, 1953, as required by law, that part of the current annual report which contains recommendations or suggestions for legislative action as follows:

1. TO GIVE TO THE DEPARTMENT OF PUBLIC WORKS THE AUTHORITY TO APPROVE ALL TRAFFIC REGULATIONS AND TO AUTHORIZE THE REGULATION OF ALL TRAFFIC ON STATE HIGHWAYS AND ON WAYS LEADING THERETO.

The Department of Public Works has authority over traffic regulations which require signs, lights, signal systems, devices, parking meters or markings for enforcement. The implied power of approval over any regulation which does not require the use of the above would be made explicit in this recommended legislation.

This legislation would likewise extend the Department's rule-making power to control pedestrians on overhead highways such as the John F. Fitzgerald Expressway and other limited access express highways. It would also give authority to regulate traffic or ways other than state highways wherever necessary.

2. TO CLARIFY THE LAW WITH REGARD TO THE OPERATION OF VEHICLES.

Chapter 461 of the Acts of 1952 made it mandatory for operators to drive in the right lane. This recommended legislation would make allowances for areas where the right lane has been reserved for parking or for acceleration and deceleration.

3. TO CLARIFY THE LAW WHICH REQUIRES THE DEPARTMENT OF PUBLIC WORKS TO PAINT SOLID LINES IN FRONT OF SCHOOLS.

Chapter 448 of the Acts of 1953 directed the Department to paint solid lines in front of schools. It made no exception for divided highways and contained no rules of operation or penalty.

The Department, therefore, recommends the attached legislation to make the law more workable.



OL SUGGESTIONS FOR LEGISLATION WORTHY OF CONSIDERATION:

OL THE CHIEF ENGINEER WOULD MUCH APPRECIATE RECOMMENDATIONS  
RESPECTING OR MODIFIED BY THE STATE OF THE STATE  
THE COMMISSIONER OF PUBLIC WORKS PRESENTED TO THE STATE

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HOUSE — No. 66.

[Jan.

### RECOMMENDATIONS.

The Department is recommending legislation this year for the following purposes:—

1. TO GIVE TO THE DEPARTMENT OF PUBLIC WORKS THE AUTHORITY TO APPROVE ALL TRAFFIC REGULATIONS AND TO AUTHORIZE THE REGULATION OF ALL TRAFFIC ON STATE HIGHWAYS AND ON WAYS LEADING THERETO.

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# HOUSE . . . . No. 66

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## The Commonwealth of Massachusetts

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DEPARTMENT OF PUBLIC WORKS,  
OFFICE OF THE COMMISSIONER,  
100 NASSAU STREET, BOSTON 14, November 4, 1953.

*To the Honorable Senate and House of Representatives.*

In compliance with the provisions of section 33 of chapter 30 of the General Laws (Tercentenary Edition), as amended by chapter 67 of the Acts of 1948, I have the honor to submit herewith such parts of the annual report of the Department of Public Works as contain recommendations or suggestions for legislative action, accompanied by drafts of bills embodying the legislation recommended. These drafts have been submitted to the Counsel for the House of Representatives for advice and assistance as to the form thereof.

Respectfully submitted,

JOHN A. VOLPE,  
*Commissioner.*



4. TO PROVIDE FOR TRANSFER, RELEASE AND DELIVERY TO THE DEPARTMENT OF PUBLIC WORKS, UPON REQUEST, OF ORIGINAL PLANS, BLUEPRINTS, RECORDS, TRACINGS OR OTHER DATA RELATING TO CERTAIN BRIDGES TRANSFERRED TO SAID DEPARTMENT.

Under Chapter 690 of the Acts of 1945 and Chapter 482 of the Acts of 1948 public agencies turned over to the Department certain bridges for maintenance and the Department is desirous of acquiring from the former public authorities in charge of these bridges the original plans, tracings, blueprints and records of the bridges transferred, and recommends legislation authorizing such transfer.

5. TO APPORTION REAL ESTATE TAXES ON LAND TAKEN FOR HIGHWAYS BY EMINENT DOMAIN.

It appears necessary to clarify chapter 634 of the Acts of 1953 apportioning real estate taxes on land taken by eminent domain.

Since this Department makes whole takings and partial takings of property under eminent domain in connection with the layout and alteration of highways, it is recommended that the wording of the chapter be changed to make this clear.

Further, the act stipulates that it shall apply to all cases coming within its terms where damages are "fixed" after the effective date of the act. In the case of takings made for the purpose of a highway, the right to damages shall not vest until entry has been made and it is recommended that the act be amended to apply to all cases coming within its terms where damages "vest" after the effective date of the act.

6. TO AUTHORIZE THE CITY OF BOSTON TO ALLOW CERTAIN LAND TO BE USED AS A PARKING SPACE FOR MOTOR VEHICLES ON OFFICIAL BUSINESS AT THE STATE PUBLIC WORKS BUILDING IN SAID CITY.

The Department recommends legislation to enable the City of Boston Park Department to grant permission to

this Department to use land adjoining the Public Works Department parking area on Nashua Street which is under the control of the Boston Park Commission, under the name of Lomasney Park, for the purpose of parking motor vehicles on official business in this Department's building.

The area in question is not being used by the city of Boston as a park, and could be used by the Department to supplement its regular parking area at no cost to the Department.

This proposed legislation has the approval of the City of Boston Law Department and the City of Boston Park Department.

7. TO EXEMPT LIFEGUARDS IN THE DIVISION OF PUBLIC BEACHES OF THE DEPARTMENT OF PUBLIC WORKS FROM THE OPERATION OF THE CIVIL SERVICE LAW.

Due to the fact that the employment of lifeguards in the Division of Public Beaches of the Department is seasonal in nature and recurrent, it is the Department's recommendation that the appointment of such lifeguards be exempt from the operation of civil service law.

8. TO TRANSFER TO THE DIVISION OF PUBLIC BEACHES OF THE DEPARTMENT OF PUBLIC WORKS CERTAIN EMPLOYEES OF THE DEPARTMENT OF CONSERVATION.

The Department recommends that chapter 666 of the Acts of 1953, creating the Division of Public Beaches, be amended so as to authorize the transfer from the Department of Conservation of both permanent and temporary employees who have had at least five years of continuous service, said transfer to be effective without change in their civil service status, seniority or other rights.



## DIVISION OF BEACHES

Period Ending June 30, 1955

Acct. No.	Administration	Amount Appropriated	Commitment	Outstanding Encumbrances	Expenditures for 12 Months to Date	Total Expend- itures, Com-	Available Balance of Appropriation	Per Cent to Date of Appropriation	
								Exp. Committed & Expended	Encumbered
4050-01-02	Salaries Others	7,350.00		---	7,310.53		39.47	99.5	
4050-01-10	Travel & Automotive	200.00		---	171.50 A		28.50	86.0	
4050-01-11	Advertising & Printing	100.00		---	4.25		95.75	4.0	
4050-01-12	Reprs., Alt. & Addns.	700.00		---	700.00		---	100.0	
4050-01-14	Office & Admin. Expense	400.00		---	384.38 A		15.62	96.0	
4050-01-15	Equipment	550.00		---	507.05		42.95	92.2	
4050-01-16	Rentals	700.00		---	627.34		72.66	89.6	
	Total	10,000.00		---	9,705.05		294.95	97.1	
A = Includes Encumbrances fwd. to 1955 Fiscal Year as Acc									
SALISBURY BEACH RESERVATION									
Bathhouse, Parking Area									
8324-01-01	Land Damages	---		700.00	2.03		---	---	
8324-01-10	Project Payments	---		281,093.55	201,347.70		---	---	
8324-01-20	Technical Services	---		3,640.58	20,337.31		---	---	
8324-01-30	Dept. Engineering	---		158.02	15,149.63		---	---	
8324-01-40	Force Account Work	---		---	---		---	---	
	Total 8324-01-00	900,000.00		285,600.15	236,836.67		372,292.96	26.3	
Maint. Salisbury Beach Reservation									
4050-02-01	Salaries Permanent	8,065.00		---	7,979.61		85.39	98.9	
4050-02-02	Salaries Others	66,350.00		---	58,706.67 A		7,643.33	88.5	
4050-02-03	Services Non-employees	100.00		---	---		100.00	---	
4050-02-05	Clothing	1,704.00		---	620.04 A		1,083.96	36.4	
4050-02-06	Housekeeping Supplies	300.00		---	236.98 A		63.02	79.0	
4050-02-07	Lab., Medical & General	50.00		---	50.00 A		---	100.0	
4050-02-08	Heat & Other Plant	1,150.00		---	1,145.00 A		5.00	99.6	
4050-02-10	Travel & Automotive	975.00		---	910.72 A		64.28	93.4	
4050-02-11	Advertising & Printing	100.00		---	53.59 A		46.41	46.6	
4050-02-12	Reprs., Alt. & Addns.	1,700.00		---	1,501.92 A		198.08	91.3	
4050-02-14	Office & Admin. Expense	600.00		---	485.30 A		114.70	80.9	
4050-02-15	Equipment	8,900.00		---	8,311.64 A		588.36	93.4	
4050-02-16	Rentals	300.00		---	235.00 A		65.00	78.3	
4050-02-13	Special Expenses	50.00		---	28.05		21.95	56.0	
	Total	90,644.00		---	80,270.62	80,270.62	10,373.38	88.6	

APPROVAL OF SPECIFICATIONS. The Department approved during the fiscal year under the provisions of Section 7, Chapter 44, General Laws, as amended, specifications for the construction of streets in Milton and Lowell.



# Permits Issued

(all caps)

During the year ending June 30, 1954, 6745 permits were issued by the Department.

Of this number, 2,384 were issued for miscellaneous work within the limits of the State highway location and covered the construction of drive-ways and sidewalks, grading, installation of pole lines, underground conduits, cables, high tension lines, sewer, water and gas mains and connections, removal of trees, trimming of trees, etc.

There were 3,185 permits issued for the movement over State highways of loads exceeding the legal limits in weight, length or width, consisting of oversized construction equipment, buildings, etc.

There were 1176 permits issued by the District Office for grading, installation of service connections, etc.

~~September 10, 1956~~

JOHN F. FITZGERALD EXPRESSWAY

During the fiscal year ending June 30, 1954, contract plans and specifications were prepared for a car pool garage to be constructed under the expressway ramps at Nashua Street. The only construction contract awarded ~~under the work in this office~~ during this period, was for the construction of the above mentioned car pool garage.

A contract was signed January 12, 1954 with C. A. Maguire & Associates and Fay, Spofford & Thorndike for engineering services covering the section of expressway from Kneeland Street to the vicinity of Southampton Street and Massachusetts Avenue.

~~Respectfully submitted,~~

~~LDG/ata~~

- Bridges -

~~Fiscal Year Ending June 30, 1954~~

During the fiscal year the Department awarded contracts for 117 new structures; awarded contracts for alterations or repairs to 19 structures; inspected and reported on 12 bridges at the request of local authorities; and made preliminary studies and initiated work on bridges to be contracted for in the near future.

Following are the lists of bridges for which contracts were awarded in the fiscal year ending June 30, 1954.

CONTRACTS FOR NEW STRUCTURES

Abington-Brockton	Groveland and Ashland Streets over Beaver Brook; a single span box culvert.
Acton	Powder Mill Road, Route 62, over Assabet River; a single span steel stringer bridge.
Agawam	Relocated Route 5 over Westfield River; a three-span steel plate girder bridge.
Agawam	Route 5 over traffic circle (west); a three-span steel stringer bridge.
Agawam	Route 5 over traffic circle (east); a three-span steel stringer bridge.
Agawam	Relocated Route 5 over road to sewage plant; a single-span steel stringer bridge.
Amesbury	Macy Street Extension over Powow River; a three-span concrete beam and slab bridge.
Barnstable	Mid-Cape Highway over relocated Phinney's Lane; a four-span concrete beam and slab bridge.
Barnstable	Mid-Cape Highway over relocated Mary Dunn's Road; a four-span concrete beam and slab bridge.
Bedford	Middlesex Turnpike under relocated Old Bill Road; a three-span steel stringer bridge.



Bedford	Middlesex Turnpike over Burlington Road, Route 62; two single spans concrete rigid frame bridge.
Bedford	Relocated Burlington Road, Route 62, over Vine Brook; a single span box culvert.
Bedford	Ramp at intersection of Middlesex Turnpike and Route 62 over Vine Brook; a single span box culvert.
Billerica	Middlesex Turnpike under Concord Road; a three-span steel stringer bridge.
Billerica	Middlesex Turnpike over Concord River; two twin-span concrete arch bridges.
Billerica	Middlesex Turnpike over Farm Road; two single span box culverts.
Billerica	Middlesex Turnpike under Treble Cove Road; a three-span steel stringer bridge.
Billerica	Middlesex Turnpike under relocated Rangeway Road; a three-span steel stringer bridge.
Brockton	Boston-Fall River Expressway over West Chestnut Street; a single-span steel stringer bridge.
Brockton	Boston-Fall River Expressway under Belmont Street; a two-span steel stringer bridge.
Brockton	Boston-Fall River Expressway over sewer pipe; a single-span box culvert.
Brockton	Boston-Fall River Expressway over Terrey Street; a single-span steel stringer bridge.
Brockton	Boston-Fall River Expressway under Pleasant Street; a two-span steel stringer bridge.
Brockton	Boston-Fall River Expressway under relocated Route 27; a two-span concrete rigid frame bridge.

Brookfield	Relocated Route 9 over Willow Brook; a single-span box culvert.
Buckland-Charlemont	Relocated Route 2 over Deerfield River; a five-span steel plate girder bridge.
Buckland-Shelburne	Relocated Route 2 over Deerfield River and Main Street; a five-span steel plate girder bridge.
Burlington	Middlesex Turnpike over Northern Circumferential Highway, Route 128; a two-span steel stringer bridge.
Carver	Tremont Street over Weweantic River; a three-span timber pile trestle with concrete deck.
Charlemont	Relocated Route 2 over Deerfield River; a three-span steel plate girder bridge.
Charlton	Route 31 over Boston and Albany Railroad; a single span steel stringer bridge.
Chesterfield	Roberts Meadow Road over Dead Branch; a single-span steel stringer bridge.
Danvers	Endicott Street over Northern Circumferential Highway, Route 128; a two-span steel stringer bridge.
Danvers-Middleton	Andover Street, Danvers, and Main Street, Middleton, over Ipswich River; a single-span steel stringer bridge.
Dedham	Southern Circumferential Highway, Route 128, Northbound roadway under Washington Street; a single-span steel stringer bridge.
Dedham	Southern Circumferential Highway, Route 128, Southbound roadway under Washington Street; a single-span steel stringer bridge.
Dedham	Southern Circumferential Highway, Route 128, under Providence Pike, Route 1; a single-span steel stringer bridge.

Dedham-Needham	Southern Circumferential Highway, Route 128, Northbound roadway over Charles River; a three-span steel plate girder bridge.
Dedham-Needham	Southern Circumferential Highway, Route 128, Southbound roadway over Charles River; a three-span steel plate girder bridge.
Dedham	Southern Circumferential Highway Route 128, Northbound roadway over West Street; a single-span steel stringer bridge.
Dedham	Southern Circumferential Highway, Route 128, Southbound roadway over West Street; a single-span steel stringer bridge.
Dedham	Southern Circumferential Highway, Route 128, Northbound roadway under High Street; a three-span steel stringer bridge.
Dedham	Southern Circumferential Highway, Route 128, Southbound roadway under High Street; a single-span steel stringer bridge.
Dennis-Yarmouth	Bridge Street-High Bank Road over Bass River; a nine-span pile trestle with concrete deck.
Dennis-Yarmouth	Mid-Cape Highway over Kelley's Bay; a seven-span pile trestle with concrete deck.
Duxbury	Kingston By-pass under Relocation of Route 3A; a four-span steel stringer bridge.
Fitchburg	Lunenburg Road, Route 2A, over Baker Brook; a single-span concrete beam bridge.
Harwich	Main Street over Herring River; an eight-span pile trestle bridge with concrete deck,
Hubbardston	Relocation of Worcester Road, Route 68, over West Branch of Ware River; a single-span steel stringer bridge.



Huntington	Goss Hill Road over Middle Branch of Westfield River; two-span steel stringer bridge.
Kingston	Landing Road over Stony Brook; a single-span concrete slab bridge.
Kingston	Kingston By-pass over Landing Road; a three-span steel stringer bridge.
Kingston	Kingston By-pass over Jones River; a three-span steel stringer bridge.
Kingston	Kingston By-pass over New York, New Haven & Hartford Railroad; a single-span steel stringer bridge.
Kingston	Kingston By-Pass over Tussock Brook; a single-span box culvert.
Lee	Meadow Street over Housatonic River; a single-span pony truss.
Milton	Southeast Expressway under Squantum Street; a two-span steel stringer bridge.
Milton	Southeast Expressway under Wood Street ramp; a two-span steel stringer bridge.
Milton	Southeast Expressway under Antwerp Street ramp; a two-span steel stringer bridge.
Milton	Southeast Expressway under Adams Street; a two-span steel stringer bridge.
Milton	Southeast Expressway over Metropolitan District Commission sewer; a single span concrete box culvert.
Milton	Southeast Expressway under Boulevard Street; a two-span steel stringer bridge.
Montague	Fifth Street over Lower Canal; a single-span through truss.
Natick	Speen Street over Boston & Albany Railroad; a single-span steel stringer bridge with two concrete side spans.

Needham	Northbound roadway of Southern Circumferential Highway, Route 128, under New York, New Haven & Hartford Railroad; a single-span steel plate girder.
Needham	Southern Circumferential Highway, Route 128, over Central Street; a single-span concrete rigid frame.
Needham	Northbound roadway of Southern Circumferential Highway, Route 128, under Highland Avenue; a single-span concrete rigid frame.
Needham	Southern Circumferential Highway, Route 128, under Kendrick Street; a two-span steel stringer bridge.
Needham	Southern Circumferential Highway, Route 128, under Needham Branch of New York, New Haven & Hartford Railroad; a two-span steel plate girder bridge.
Needham	Southern Circumferential Highway, Route 128, under Relocation of Great Plain Avenue; a two-span steel stringer bridge.
New Ashford	Williamstown Road, Route 7, over Green River; a single-span steel stringer bridge.
New Ashford	Williamstown Road, Route 7, over Cattle Pass; a single-span concrete box bridge.
New Ashford	Private Road over Relocation of Green River; a three-span steel stringer bridge.
New Ashford	Driveway over Relocation of Green River; a single-span steel stringer bridge.
North Adams	Lower Beaver Street over North Branch of Hoosic River; a single-span steel plate girder bridge.
North Adams	South Church Street over Tunnel Brook; a single-span concrete slab bridge.

North Attleborough	Mendon Road over Abbotts Run River; a single-span steel stringer bridge.
Oxford	Dadley Road over Rench River; a single-span concrete slab bridge.
Orleans	Route 28 over Salt Marsh Pond Inlet; a six-span pile trestle with concrete deck.
Plympton	Main Street over Wenatuxet River; a single-span concrete slab bridge.
Revere	Cove Street Pedestrian Overpass over Metropolitan Transit Authority Revere Extension; a single-span steel beam bridge.
Southbridge	Mechanic Street over Quinebaug River; a single-span steel beam bridge.
Springfield	Ramp A over Columbus Avenue; a two-span steel stringer bridge.
Springfield	Ramp C over Columbus Avenue and Ramp A; a four-span steel stringer bridge.
Sturbridge	Streeter Road over Quinebaug River; a five-span pile trestle with concrete deck.
Taunton	Winthrop Street over Three Mile River; a two-span steel stringer bridge.
West Bridgewater	Boston-Fall River Expressway under West Center Street; a two-span steel stringer bridge.
West Bridgewater	Boston-Fall River Expressway under Relocation of West Street; a two-span steel stringer bridge.
West Bridgewater	Boston-Fall River Expressway under Walnut Street; a two-span steel stringer bridge.
West Springfield	Relocated Route 5 under Boston & Albany Railroad; a single-span steel plate girder.
West Springfield	Relocated Route 5 under north side of Traffic Circle; a single-span steel stringer bridge.



West Springfield	Relocated Route 5 under south side of Traffic Circle; a single-span steel stringer bridge.
Winchester	Boston & Maine Railroad over Winchester Square; forty-five spans of steel trestle for temporary track.
Winchester	Bacon Street under Main Line of Boston & Maine Railroad; a single-span steel plate girder bridge.
Winchester	Main Line of Boston & Maine Railroad over Aberjona River at Wedgemere; a single-span concrete box culvert.
Winchester	Main Line of Boston & Maine Railroad over pedestrian underpass at Wedgemere; a single-span concrete box bridge.
Winchester	Construction of structures at Winchester Square, including three bridges, retaining walls, ramps, platforms and canopies.
Winchester	Main Line of Boston & Maine Railroad over Aberjona River; a twin box concrete bridge.
Winchester	Route 38 By-pass under Main Line of Boston & Maine Railroad; a single-span steel plate girder bridge.
Winchester	Woburn Loop, Boston & Maine Railroad, over Horn Pond Brook; a twin box concrete bridge.
Winchester	Route 38 By-pass over Aberjona River; a twin-span concrete box bridge.
Winchester	Route 38 By-pass under Woburn Loop of Boston & Maine Railroad; a single-span steel plate girder bridge.
Winchester	Shore Road over Aberjona River; a twin-span concrete box bridge.
Winchester	Swanton Street under Main Line of Boston & Maine Railroad; a single-span steel plate girder bridge.

Worcester	Lancaster Street Extension over Salisbury Pond; three 8-foot diameter concrete pipes.
Worcester	Lincoln Square Improvements. Relocated Boston & Maine Railroad from Garden Street (partly in tunnel) with New Street over tunnel and bridges at Belmont Street and at New Lincoln Street. Includes relocation of Mill Brook.
Yarmouth	Mid-Cape Highway over New York, New Haven & Hartford Railroad and Willow Street; a four-span steel stringer bridge.
Yarmouth	Mid-Cape Highway over Relocated Union Street; a single-span steel stringer bridge.
Yarmouth	Mid-Cape Highway under Great Western Road; a single-span steel stringer bridge.

CONTRACTS FOR ALTERATIONS OR REPAIRS TO EXISTING STRUCTURES

Brockton	Belmont Street over Cowesett Brook; widening bridge.
Boston	Tunnel Road over Boston & Maine Railroad spur tracks; repairs and new surfacing.
Boston	Tunnel Road over Boston & Maine Railroad spur track; replace curbs.
Buckland	Ashfield Road over Boston & Maine Railroad; widening bridge.
Chicopee	Prospect Street over Willimansett Brook; widening bridge.
Dedham	Providence Road, Route 1, over Southern Circumferential Highway, Route 128; new superstructure.
Fairhaven-New Bedford	Route 6 over New Bedford Harbor; repairs to bearings and piers.
Falmouth	Nashawena Street over Nashawena Creek; widening bridge.

Fitchburg	Water Street over Broad Street and Boston & Maine Railroad; widening bridge.
Mattapoisett	Fairhaven Road over Herring River; reconstruct part of superstructure.
Needham	Southern Circumferential Highway southbound roadway under Highland Avenue; alterations.
New Ashford	Williamstown Road, Route 7, over brook; widening bridge.
Revere	Tunnel Road over Winthrop Avenue and Revere Beach Parkway; surfacing and repairs.
Revere	Tunnel Road over Boston & Maine Railroad and northbound roadway; surfacing and repairs.
Southbridge	Dudley River Road over Power Canal; new superstructure.
Southbridge	Dudley River Road over Sandersdale Canal; new superstructure.
Spencer	Relocation of Route 9 over Seven Mile River; widening bridge.
Warren	Boston Road over Cheney Brook; new superstructure.
Watertown	Main Street over Watertown Branch of Boston & Maine Railroad; new superstructure.



THE COMMONWEALTH OF MASSACHUSETTS

**COPY**  
DEPARTMENT OF PUBLIC WORKS

INTER OFFICE CORRESPONDENCE

From Mr. R. W. Coburn  
Attention of Miss M. E. McMorrow  
Subject 1954 ANNUAL REPORT

June 7, 1955

REPORT ON CHAPTER 90 ACTIVITIES FOR  
THE FISCAL YEAR ENDING JUNE 30, 1954

The total amount appropriated for the construction of town and county ways (Chapter 90 work) for the fiscal year ending June 30, 1954 was \$5,000,000.

During the year, the Department has contracted for work to be done in the towns and cities named in the attached table, which table also shows the type of road or nature of work, the length contracted for, and the allotments or contributions of the State, towns, cities, and counties.

The <sup>following</sup> attached table represents 561 contracts involving a total value of about \$7,500,000. Approximately 50% of the total value of work is being done by advertised or unit price contracts and the balance of the work by force account contracts. The State's expenditures on this type of work for the year ending June 30, 1954 amounted to \$3,915,612.54.

R. W. Coburn  
R. W. Coburn  
State Aid Engineer

C:MS

Att.

June 7, 1955

VALUE OF STATE FUNDS PUT UNDER CONTRACT

IN FISCAL YEAR 1954

<u>COUNTY</u>	<u>NUMBER OF CONTRACTS</u>	<u>TOTAL VALUE OF STATE ALLOTMENTS</u>
Barnstable	24	\$ 165,300
Berkshire	42	155,675
Bristol	21	246,050
Dukes	5	21,000
Essex	52	304,550
Franklin	66	243,350
Hampden	36	277,750
Hampshire	33	152,150
Middlesex	76	606,400
Nantucket	2	10,000
Norfolk	43	273,650
Plymouth	38	248,500
Suffolk	9	391,300
Worcester	<u>114</u>	<u>523,600</u>
TOTALS	561	\$3 , 619,275

CONSTRUCTION OF TOWN AND COUNTY WAYS  
(Section 34, Chapter 90, General Laws, Tercentenary Edition)

During the year the Department has contracted for work to be done in the towns/cities named in the following table, which also shows the type of road or nature of work, the length contracted for, and the allotments or contributions by the State, towns/cities and counties:

COUNTIES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
<u>Barnstable County</u>					
Barnstable	\$14,000.00	\$ 7,000.00	\$ 7,000.00	Class I Bituminous Concrete	2,800
Barnstable	15,000.00	7,500.00	7,500.00	Class I Bituminous Concrete	5,085
Barnstable	3,000.00	3,000.00	3,000.00	Maintenance	24,350
Bourne	1,000.00	1,000.00	1,000.00	Maintenance	11,000
Brewster	5,000.00	2,500.00	2,500.00	Bituminous road-mix	8,050
Chatham	5,000.00	2,500.00	2,500.00	Drainage and Class I Bituminous Concrete	1,326
Chatham	300.00	300.00	300.00	Maintenance	12,727
Dennis	20,000.00	10,000.00	10,000.00	Bridge and approaches	690
Dennis	14,000.00	-	-	Bridge and approaches	690
Falmouth	7,800.00	3,900.00	3,900.00	Bridge extension	150
Falmouth	6,200.00	3,100.00	3,100.00	Class I Bituminous Concrete and bituminous road-mix	2,391
Falmouth	2,000.00	2,000.00	2,000.00	Maintenance	8,950
Harwich	10,000.00	5,000.00	5,000.00	Bituminous road-mix	4,700
Harwich	2,000.00	4,500.00	-	Bridge construction	-
Harwich	8,500.00	4,250.00	4,250.00	Bituminous road-mix	4,294
Harwich	1,000.00	1,000.00	1,000.00	Maintenance	9,056
Orleans	4,000.00	2,000.00	2,000.00	Bituminous road-mix	4,000
Orleans	500.00	500.00	500.00	Maintenance	6,150
Provincetown	5,000.00	2,500.00	2,500.00	Class I Bituminous Concrete	2,600
Sandwich	6,000.00	3,000.00	3,000.00	Class I Bituminous Concrete	215
Truro	4,000.00	2,000.00	2,000.00	Bituminous road-mix	2,780
Wellfleet	5,000.00	2,500.00	2,500.00	Grading and drainage	3,800
Wellfleet	6,000.00	3,000.00	3,000.00	Bituminous road-mix	3,800
Yarmouth	20,000.00	10,000.00	10,000.00	Bridge and approaches	547
<u>Berkshire County</u>					
Adams	13,000.00	4,500.00	4,500.00	Bituminous treated gravel and Class I bituminous concrete	1,305
Adams	400.00	400.00	400.00	Maintenance	16,000
Becket	4,000.00	2,000.00	2,000.00	Ledge removal and gravel	650
Becket	1,000.00	1,000.00	1,000.00	Maintenance	6,800
Clarksburg	700.00	700.00	700.00	Maintenance	9,500
Florida	4,000.00	2,000.00	2,000.00	Wood cribbing and ledge removal	1,600
Florida	1,000.00	2,000.00	500.00	Maintenance	2,650



COUNTIES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
<u>Berkshire County</u>					
Florida	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	Maintenance	11,450
Hancock	2,000.00	1,000.00	1,000.00	Gravel	1,000
Hancock	2,000.00	-	-	Maintenance	8,000
Hinsdale	1,800.00	-	-	Bituminous treated gravel and surface treatment	13,072
Hinsdale	2,000.00	1,000.00	1,000.00	Bituminous treated gravel and drainage	2,440
Hinsdale	600.00	600.00	600.00	Maintenance	7,200
Lanesborough-					
North Adams	1,000.00	-	1,000.00	Maintenance	72,000
Lee	7,000.00	3,500.00	3,500.00	Class I Bituminous Concrete	1,900
Monterey	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,300
Mount Washington	1,000.00	-	1,000.00	Maintenance	7,700
Mount Washington	300.00	-	300.00	Maintenance	5,000
New Ashford	500.00	250.00	250.00	Gravel	500
New Ashford	200.00	200.00	200.00	Maintenance	1,600
New Marlborough	10,000.00	5,000.00	5,000.00	Gravel	5,100
North Adams	11,000.00	5,500.00	5,500.00	Class I Bituminous Concrete	864
North Adams	12,000.00	6,000.00	6,000.00	Class I Bituminous Concrete	1,212
Otis	4,000.00	2,000.00	2,000.00	Gravel	1,500
Peru	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,300
Peru	11,500.00	-	-	Bituminous treated gravel and surface treatment	23,800
Peru	600.00	600.00	600.00	Maintenance	9,000
Richmond	4,000.00	2,000.00	2,000.00	Ledge excavation	600
Richmond	6,000.00	2,000.00	2,000.00	Gravel	1,200
Sandisfield	10,000.00	5,000.00	5,000.00	Bituminous treated gravel	7,000
Sandisfield	1,000.00	1,000.00	1,000.00	Maintenance	11,000
Savoy	2,000.00	1,000.00	1,000.00	Gravel and drainage	350
Sheffield	6,000.00	3,000.00	3,000.00	Bituminous treated gravel	1,450
Stockbridge	3,000.00	3,000.00	-	Widening and drainage	1,200
Tyringham	5,000.00	2,500.00	2,500.00	Bituminous treated gravel	6,330
Tyringham	500.00	500.00	500.00	Maintenance	6,500
Tyringham	500.00	500.00	500.00	Maintenance	7,200
West Stockbridge	75.00	75.00	75.00	Maintenance	-
Williamstown	7,500.00	3,750.00	3,750.00	Gravel and drainage	1,543
Williamstown	500.00	500.00	500.00	Maintenance	260
Windsor	3,000.00	1,500.00	1,500.00	Ledge removal and grading	1,100
Windsor	6,000.00	1,500.00	2,500.00	Gravel and bituminous treated gravel	5,600
<u>Bristol County</u>					
Attleboro	10,600.00	5,300.00	5,300.00	Class I Bituminous Concrete	1,040
Berkley	195.00	195.00	195.00	Submarine cable replace- ment	-
Berkley	1,000.00	1,000.00	1,000.00	Maintenance	11,616
Dartmouth	15,000.00	7,500.00	7,500.00	Class I Bituminous Concrete	1,400



COUNTIES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH COM- TRACTED FOR (Feet)
	State	Town	County		
<u>Bristol County</u>					
Dighton	\$ 455.00	\$ 455.00	\$ 455.00	Submarine cable replace- ment	-
Fairhaven	17,000.00	8,500.00	8,500.00	Class I Bituminous Concrete	1,650
Fairhaven	1,000.00	1,000.00	1,000.00	Maintenance	28,075
Fall River	15,400.00	7,700.00	7,700.00	Class I Bituminous Concrete	1,200
Fall River	30,000.00	15,000.00	15,000.00	Class I Bituminous Con- crete and drainage	795
Fall River	5,500.00	2,750.00	2,750.00	Class I Bituminous Concrete	1,226
Fall River	1,000.00	1,000.00	-	Maintenance	-
Freetown	1,000.00	1,000.00	1,000.00	Maintenance	18,480
New Bedford	23,600.00	11,800.00	11,800.00	Class I Bituminous Concrete	1,080
New Bedford	26,400.00	13,200.00	13,200.00	Class I Bituminous Concrete	1,920
North Attleborough	22,500.00	11,250.00	11,250.00	Bridge and approaches	615
Norton	6,400.00	3,200.00	3,200.00	Gravel and drainage	710
Raynham	1,000.00	1,000.00	1,000.00	Maintenance	14,781
Rehoboth	10,000.00	5,000.00	5,000.00	Multiplate pipe arch	1,298
Seekonk	13,000.00	6,500.00	6,500.00	Class I Bituminous Concrete	2,550
Swansea	3,000.00	1,500.00	1,500.00	Bridge repairs	-
Taunton	42,000.00	21,000.00	21,000.00	Bridge and approaches	432
<u>Dukes County</u>					
Chilmark	3,000.00	1,500.00	1,500.00	Grading and drainage	2,000
Edgartown	7,000.00	3,500.00	3,500.00	Bituminous road-mix	3,400
Edgartown	1,500.00	1,500.00	1,500.00	Maintenance	34,084
Oak Bluffs	1,500.00	1,500.00	1,500.00	Maintenance	5,200
Tisbury	8,000.00	4,000.00	4,000.00	Class F Bituminous Concrete and drainage	1,248
<u>Essex County</u>					
Amesbury	6,250.00	3,125.00	3,125.00	Class I Bituminous Con- crete and drainage	903
Andover	1,000.00	2,000.00	-	Maintenance	50,149
Beverly	10,000.00	5,000.00	5,000.00	Class I Bituminous Con- crete and drainage	1,718
Beverly	10,500.00	5,250.00	5,250.00	Class I Bituminous Concrete	2,215
Boxford	800.00	-	-	Maintenance	9,980
Danvers	14,000.00	7,000.00	7,000.00	Bridge reconstruction	-
Danvers	1,000.00	2,000.00	-	Maintenance	7,590
Essex	5,000.00	2,500.00	2,500.00	Class I Bituminous Concrete	900
Essex	10,000.00	-	-	Bituminous treated gravel	11,900
Essex	1,500.00	1,500.00	-	Maintenance	30,218
Georgetown	5,500.00	2,750.00	2,750.00	Class I Bituminous Concrete	755

# CITIES AND TOWNS

## Essex County

	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
Andover	\$ 5,500.00	\$ 2,750.00	\$ 2,750.00	Class I Bituminous Concrete	503
Andover	1,000.00	2,000.00	-	Maintenance	42,289
Andover	1,200.00	-	-	Maintenance	6,550
Beverly	11,000.00	5,500.00	5,500.00	Class I Bituminous Concrete	4,870
Beverly	500.00	1,000.00	-	Maintenance	26,979
Beverly	1,500.00	-	-	Maintenance	19,007
Beverly	8,500.00	4,600.00	3,900.00	Class I Bituminous Concrete	2,639
Beverly	1,750.00	875.00	875.00	Class I Bituminous Concrete	762.62
Beverly	500.00	1,000.00	-	Maintenance	6,400
Beverly	8,750.00	8,750.00	-	Class I Bituminous Con- crete and base course	835
Beverly	10,000.00	10,000.00	-	Class I Bituminous Concrete	2,365
Beverly	114,000.00	7,000.00	7,000.00	Bituminous treated gravel	3,953
Beverly	1,000.00	2,000.00	-	Maintenance	22,597
Beverly	15,000.00	7,500.00	7,500.00	Class I Bituminous Concrete	4,000
Beverly	7,500.00	3,750.00	3,750.00	Class I Bituminous Concrete	2,582
Beverly	12,000.00	6,000.00	6,000.00	Class I Bituminous Concrete	2,891
Beverly	7,000.00	3,500.00	3,500.00	Class I Bituminous Concrete	1,714
Beverly	6,000.00	3,500.00	2,500.00	Class I Bituminous Concrete	2,075
Beverly	3,000.00	1,500.00	1,500.00	Drainage system	1,776
Beverly	10,000.00	5,000.00	5,000.00	Drainage system	3,200
Beverly	6,000.00	6,000.00	-	Class I Bituminous Concrete	1,200
Beverly	9,000.00	4,500.00	4,500.00	Class I Bituminous Con- crete and base course	1,700
Beverly	1,500.00	3,000.00	-	Maintenance	10,200
Beverly	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,100
Beverly	4,000.00	2,000.00	2,000.00	Class I Bituminous Concrete	1,000
Beverly	1,000.00	2,000.00	-	Maintenance	20,719
Beverly	10,000.00	10,000.00	-	Class I Bituminous Concrete	2,650
Beverly	12,000.00	8,000.00	4,000.00	Class I Bituminous Concrete	4,284
Beverly	1,000.00	2,000.00	-	Maintenance	3,500
Beverly	5,000.00	2,500.00	2,500.00	Class I Bituminous Concrete	2,717
Beverly	500.00	1,000.00	-	Maintenance	6,500
Beverly	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,000
Beverly	1,800.00	-	-	Maintenance	20,300
Beverly	15,000.00	7,500.00	7,500.00	Class I Bituminous Concrete	4,468



VILLAGES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
<u>Franklin County</u>					
Adams	\$ 500.00	\$ 1,000.00	\$ -	Maintenance	5,800
	16,000.00	8,000.00	8,000.00	Class I Bituminous Concrete	574
Albany	15,000.00	11,000.00	4,000.00	Class I Bituminous Concrete	1,100
Albany	3,000.00	1,500.00	1,500.00	Class I Bituminous Concrete	1,250
Albany	1,200.00	-	-	Maintenance	4,500
	2,300.00	-	-	Maintenance	12,040
	500.00	1,000.00	-	Maintenance	7,920
<u>Franklin County</u>					
Albany	3,000.00	1,500.00	1,500.00	Surface treatment	5,700
Albany	3,700.00	-	-	Maintenance	23,700
Albany	3,000.00	1,500.00	1,500.00	Bituminous treated gravel	2,900
Albany	2,000.00	1,000.00	1,000.00	Rough grading	900
Albany	400.00	400.00	400.00	Maintenance	2,000
Albany	2,000.00	1,000.00	1,000.00	Bridge replacement	100
Albany	1,000.00	1,000.00	1,000.00	Maintenance	10,000
Albany	4,000.00	2,000.00	2,000.00	Rough grading	1,400
Albany	2,000.00	2,000.00	2,000.00	Maintenance	59,664
Albany	3,000.00	1,500.00	1,500.00	Gravel and surface treat- ment	4,850
Albany	5,000.00	-	-	Gravel	2,900
Albany	4,000.00	2,000.00	2,000.00	Gravel and surface treat- ment	3,350
Albany	1,500.00	1,500.00	1,500.00	Maintenance	26,935
Albany	18,000.00	3,000.00	3,000.00	Grading	3,800
Albany	1,000.00	1,000.00	1,000.00	Maintenance	37,700
Albany	5,000.00	2,500.00	2,500.00	Bituminous treated gravel	1,650
Albany	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	2,555
Albany	1,000.00	1,000.00	1,000.00	Maintenance	5,300
Albany	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,650
Albany	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,150
Albany	10,200.00	9,200.00	1,000.00	Bridge and approaches	450
Albany	8,100.00	8,100.00	-	Class I Bituminous Concrete	1,866
Albany	3,000.00	2,000.00	1,000.00	Class I Bituminous Concrete	1,353
Albany	1,000.00	1,000.00	1,000.00	Maintenance	33,079
Albany	7,000.00	-	-	Gravel and surface treat- ment	3,800
Albany	3,000.00	1,500.00	1,500.00	Grading	2,800
Albany	3,000.00	1,500.00	1,500.00	Grading and drainage	6,792
Albany	500.00	500.00	500.00	Maintenance	10,980
Albany	2,000.00	1,000.00	1,000.00	Grading	2,301.21
Albany	5,000.00	-	-	Bituminous treated gravel	6,500
Albany	3,000.00	1,500.00	1,500.00	Bituminous treated gravel	7,451
Albany	500.00	500.00	500.00	Maintenance	6,485
Albany	5,000.00	2,500.00	2,500.00	Bituminous treated gravel	6,800



## COUNTIES AND TOWNS

COUNTIES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
<u>Franklin County</u>					
Leyden	\$ 4,000.00	\$ -	\$ -	Bituminous treated gravel	3,200
Leyden	1,250.00	625.00	625.00	Bridge construction	120
Leyden	2,000.00	1,000.00	1,000.00	Gravel and surface treatment	3,500
Leyden	500.00	500.00	500.00	Maintenance	5,100
Monroe	6,000.00	3,000.00	3,000.00	Gravel and surface treatment	5,700
Monroe	8,000.00	4,000.00	4,000.00	Gravel and surface treatment	4,400
Monroe	1,000.00	1,000.00	1,000.00	Maintenance	10,500
Montague	12,000.00	9,000.00	3,000.00	Bituminous treated gravel	4,482
Montague	10,000.00	2,000.00	-	Bridge repairs	-
New Salem	3,000.00	1,500.00	1,500.00	Surface treatment	4,116.85
New Salem	2,000.00	1,000.00	1,000.00	Bituminous treated gravel	1,791.52
New Salem	450.00	450.00	450.00	Maintenance	3,200
Northfield	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	3,350
Northfield	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	3,750
Northfield	1,000.00	1,000.00	1,000.00	Maintenance	13,800
Orange	6,250.00	4,250.00	2,000.00	Bituminous treated gravel	6,600
Orange	6,250.00	4,250.00	2,000.00	Bituminous treated gravel	4,350
Rowe	5,000.00	-	-	Gravel and surface treatment	2,550
Rowe	5,000.00	2,500.00	2,500.00	Gravel and surface treatment	5,450
Rowe	1,000.00	1,000.00	1,000.00	Maintenance	19,800
Shelburne	4,000.00	2,000.00	2,000.00	Gravel and surface treatment	3,400
Shelburne	6,000.00	3,000.00	3,000.00	Bituminous treated gravel	4,572
Shelburne	1,000.00	1,000.00	1,000.00	Maintenance	35,432
Shutesbury	4,000.00	2,000.00	2,000.00	Bituminous treated gravel and drainage	1,400
Shutesbury	1,000.00	1,000.00	1,000.00	Maintenance	4,650
Sunderland	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,750
Sunderland	750.00	750.00	750.00	Maintenance	5,344
Warwick	2,000.00	1,000.00	1,000.00	Bituminous treated gravel	3,000
Warwick	1,500.00	1,500.00	1,500.00	Maintenance	15,950
Wendell	1,500.00	-	-	Storm damage repair	-
Wendell	4,000.00	2,000.00	2,000.00	Gravel and surface treatment	5,950
Whately	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	2,700
Whately	4,000.00	2,000.00	2,000.00	Surface treatment and drainage	6,600
<u>Hampden County</u>					
Agawam	11,000.00	5,500.00	5,500.00	Bituminous macadam	2,700
Agawam	200.00	200.00	200.00	Maintenance	150
Blandford	5,000.00	2,000.00	3,000.00	Gravel and ledge removal	1,600
Brimfield	4,000.00	2,000.00	2,000.00	Bituminous road-mix and drainage	1,286
Brimfield	700.00	700.00	700.00	Maintenance	13,900
Chicopee	27,000.00	13,500.00	13,500.00	Class I Bituminous Concrete	3,110

COUNTIES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
<u>Hampden County</u>					
East Longmeadow	\$ 5,000.00	\$ 2,500.00	\$ 2,500.00	Bituminous macadam and drainage	4,110
Granville	10,000.00	5,000.00	5,000.00	Bituminous macadam	2,400
Granville	1,000.00	1,000.00	1,000.00	Maintenance	12,610
Granville	1,000.00	1,000.00	1,000.00	Maintenance	15,813
Hampden	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	2,250
Holland	1,000.00	1,000.00	1,000.00	Maintenance	12,800
Holyoke	28,000.00	15,000.00	13,000.00	Bituminous macadam	4,400
Longmeadow	16,000.00	8,000.00	8,000.00	Class I Bituminous Concrete	2,000
Longmeadow	1,500.00	1,500.00	1,500.00	Maintenance	10,175
Ludlow	10,000.00	5,000.00	5,000.00	Bituminous macadam	2,850
Ludlow	20,000.00	2,500.00	7,500.00	Bituminous macadam	6,000
Ludlow	1,000.00	1,000.00	1,000.00	Maintenance	14,430
Monson	6,000.00	3,000.00	3,000.00	Grading and drainage	1,700
Monson	400.00	400.00	400.00	Maintenance	4,400
Montgomery	600.00	600.00	600.00	Maintenance	6,800
Palmer	900.00	450.00	450.00	Class I Bituminous Con- crete and cement con- crete	270
Palmer	2,000.00	2,000.00	2,000.00	Maintenance	73,558
Russell	13,000.00	6,500.00	6,500.00	Bridge reconstruction	-
Southwick	12,500.00	2,500.00	5,000.00	Bituminous macadam	3,925
Southwick	4,000.00	2,000.00	2,000.00	Bituminous macadam	3,400
Southwick	800.00	800.00	800.00	Maintenance	5,280
Springfield	20,000.00	10,000.00	10,000.00	Class I Bituminous Concrete	2,244
Tolland	5,000.00	-	-	Bituminous treated gravel	4,300
Wales	2,450.00	1,225.00	1,225.00	Bituminous road-mix	1,350
Wales	500.00	500.00	500.00	Maintenance	6,800
West Springfield	19,000.00	9,500.00	9,500.00	Class I Bituminous Concrete	600
West Springfield	200.00	200.00	200.00	Maintenance	150
Westfield	10,000.00	5,000.00	5,000.00	Bituminous macadam	1,600
Westfield	24,000.00	12,000.00	12,000.00	Class I Bituminous Concrete	7,438
Wilbraham	10,000.00	5,000.00	5,000.00	Bituminous treated gravel and drainage	3,700
<u>Hampshire County</u>					
Amherst	12,000.00	6,000.00	6,000.00	Bituminous macadam	3,730
Amherst	800.00	800.00	800.00	Maintenance	10,025
Belchertown	3,000.00	1,500.00	1,500.00	Grading and drainage	2,800
Chesterfield	20,000.00	-	-	Bituminous road-mix	5,500
Cummington	2,000.00	1,000.00	1,000.00	Bituminous treated gravel	3,700
Cummington	750.00	750.00	750.00	Maintenance	10,050
Cummington	300.00	-	-	Maintenance	1,600
Goshen	2,000.00	1,000.00	1,000.00	Gravel	2,700
Goshen	1,000.00	1,000.00	1,000.00	Maintenance	26,587
Goshen	1,400.00	-	-	Maintenance	19,233
Granby	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	5,236
Hadley	7,000.00	3,500.00	3,500.00	Bituminous macadam	1,350



TOWNS AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
<u>Shropshire County</u>					
Wolverhampton	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	Maintenance	6,336
Wolverhampton	5,000.00	2,500.00	2,500.00	Class I Bituminous Concrete	1,175
Wolverhampton	10,600.00	5,300.00	5,300.00	Class I Bituminous Concrete	3,326
Wolverhampton	4,000.00	2,000.00	2,000.00	Gravel	1,800
Wolverhampton	6,250.00	750.00	1,000.00	Bridge and approaches	-
Wolverhampton	750.00	750.00	750.00	Maintenance	6,800
Wolverhampton	14,500.00	7,250.00	7,250.00	Class I Bituminous Concrete	915
Wolverhampton	9,000.00	4,500.00	4,500.00	Bridge	200
Wolverhampton	6,200.00	-	-	Grading	2,400
Wolverhampton	2,000.00	1,000.00	1,000.00	Bituminous treated gravel	2,400
Wolverhampton	750.00	750.00	750.00	Maintenance	10,300
Wolverhampton	2,200.00	-	-	Maintenance	16,383
Wolverhampton	7,000.00	3,500.00	3,500.00	Class I Bituminous Concrete	2,265
Wolverhampton	4,000.00	2,000.00	2,000.00	Grading	2,031
Wolverhampton	500.00	500.00	500.00	Maintenance	6,864
Wolverhampton	1,250.00	625.00	625.00	Grading	15,573
Wolverhampton	1,000.00	-	-	Maintenance	13,750
Wolverhampton	3,400.00	-	-	Surface treatment	2,900
Wolverhampton	6,000.00	3,000.00	3,000.00	Gravel	5,500
Wolverhampton	10,000.00	-	-	Bituminous treated gravel	6,000
Wolverhampton	2,500.00	2,500.00	2,500.00	Maintenance	15,379
<u>Middlesex County</u>					
Wolverhampton	6,000.00	3,000.00	3,000.00	Class I Bituminous Concrete	1,220
Wolverhampton	1,000.00	1,000.00	1,000.00	Maintenance	12,100
Wolverhampton	5,000.00	2,500.00	2,500.00	Bridge and approaches	1,350
Wolverhampton	5,000.00	2,500.00	2,500.00	Class I Bituminous Concrete	635
Wolverhampton	6,000.00	3,000.00	3,000.00	Bituminous treated gravel	1,750
Wolverhampton	5,000.00	2,500.00	2,500.00	Class I Bituminous Concrete	1,675
Wolverhampton	1,000.00	1,000.00	1,000.00	Maintenance	8,400
Wolverhampton	3,000.00	1,500.00	1,500.00	Base course and Class I Bituminous Concrete	500
Wolverhampton	6,000.00	3,000.00	3,000.00	Bituminous road-mix	8,240
Wolverhampton	2,000.00	2,000.00	2,000.00	Maintenance	16,700
Wolverhampton	2,000.00	1,000.00	1,000.00	Bituminous treated gravel	1,000
Wolverhampton	3,000.00	1,500.00	1,500.00	Bituminous treated gravel	1,005
Wolverhampton	900.00	900.00	900.00	Maintenance	9,550
Wolverhampton	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,200
Wolverhampton	1,000.00	1,000.00	1,000.00	Maintenance	8,550
Wolverhampton	500.00	500.00	500.00	Maintenance	6
Wolverhampton	9,400.00	4,700.00	4,700.00	Class I Bituminous Concrete	1,110
Wolverhampton	1,200.00	1,200.00	1,200.00	Maintenance	5,800



TOWNS AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH COM- TRACTED FOR (Feet)
	State	Town	County		
Middlesex County					
Att	\$ 8,000.00	\$ 4,000.00	\$ 4,000.00	Class I Bituminous Concrete	1,600
Att	1,000.00	1,000.00	1,000.00	Maintenance	4,750
Att	4,000.00	2,000.00	4,000.00	Grading	1,250
Att	800.00	800.00	800.00	Maintenance	3,400
Att	20,000.00	10,000.00	10,000.00	Class I Bituminous Concrete	5,172
Att	16,000.00	8,000.00	8,000.00	Class I Bituminous Concrete	4,862
Att	8,000.00	4,000.00	4,000.00	Class I Bituminous Concrete	1,850
Att	1,000.00	1,000.00	1,000.00	Maintenance	15,900
Att	6,000.00	3,000.00	3,000.00	Bituminous road-mix	2,040
Att	6,000.00	3,000.00	3,000.00	Bituminous treated gravel	1,900
Att	8,000.00	4,000.00	4,000.00	Bituminous road-mix	3,800
Att	1,000.00	1,000.00	1,000.00	Maintenance	11,480
Att	12,000.00	6,000.00	6,000.00	Class I Bituminous Concrete	1,835
Att	1,000.00	1,000.00	1,000.00	Maintenance	4,525
Att	10,000.00	5,000.00	5,000.00	Drainage systems and widening	1,640
Att	1,000.00	1,000.00	1,000.00	Maintenance	8,510
Att	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,300
Att	1,000.00	1,000.00	1,000.00	Maintenance	23,500
Att	33,000.00	16,500.00	16,500.00	Class I Bituminous Concrete	8,484
Att	26,000.00	13,000.00	13,000.00	Class I Bituminous Concrete	3,178
Att	24,000.00	12,000.00	12,000.00	Class I Bituminous Concrete	1,558
Att	5,000.00	2,500.00	2,500.00	Class I Bituminous Concrete	800
Att	1,000.00	1,000.00	1,000.00	Maintenance	6,400
Att	24,000.00	12,000.00	12,000.00	Class I Bituminous Concrete	3,653
Att	14,000.00	7,000.00	7,000.00	Class I Bituminous Concrete	1,436
Att	8,000.00	4,000.00	4,000.00	Class I Bituminous Concrete	1,908
Att	1,000.00	1,000.00	1,000.00	Maintenance	9,300
Att	45,000.00	30,000.00	15,000.00	Class I Bituminous Con- crete and cement-con- crete	2,354
Att	4,000.00	2,000.00	2,000.00	Class I Bituminous Concrete	1,200
Att	900.00	900.00	900.00	Maintenance	5,700
Att	6,000.00	3,000.00	3,000.00	Class I Bituminous Concrete	2,125
Att	8,000.00	4,000.00	4,000.00	Bituminous treated gravel foundation and drainage	1,437
Att	8,000.00	4,000.00	4,000.00	Grading and drainage	5,300
Att	1,000.00	1,000.00	1,000.00	Maintenance	5,800

COUNTIES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
<u>Middlesex County</u>					
Shirley	\$ 5,000.00	\$ 2,500.00	\$ 2,500.00	Class I Bituminous Concrete	950
Shirley	1,000.00	1,000.00	1,000.00	Maintenance	9,800
Somerville	44,000.00	24,000.00	20,000.00	Class I Bituminous Concrete	7,064
Stoneham	2,700.00	1,350.00	1,350.00	Class I Bituminous Concrete	1,358
Stow	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,200
Stow	1,000.00	1,000.00	1,000.00	Maintenance	9,900
Tewksbury	1,000.00	1,000.00	1,000.00	Maintenance	8,600
Townsend	6,000.00	3,000.00	3,000.00	Bituminous treated gravel	2,317
Townsend	1,000.00	1,000.00	1,000.00	Maintenance	17,000
Tyngsborough	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,400
Tyngsborough	1,000.00	1,000.00	1,000.00	Maintenance	8,200
Wakefield	20,000.00	10,000.00	10,000.00	Class I Bituminous Concrete	1,915
Wakefield	1,000.00	1,000.00	1,000.00	Maintenance	5,972
Waltham	60,000.00	30,000.00	30,000.00	Class I Bituminous Concrete	3,924
Watertown	22,000.00	11,000.00	11,000.00	Class I Bituminous Concrete	2,450
Wayland	1,000.00	1,000.00	1,000.00	Maintenance	5,750
Westford	6,000.00	3,000.00	3,000.00	Gravel sub base and drainage	4,000
Westford	1,000.00	1,000.00	1,000.00	Maintenance	10,680
Weston	1,000.00	500.00	500.00	Culvert repair	15
Weston	1,500.00	1,500.00	1,500.00	Maintenance	8,525
Wilmington	6,000.00	3,000.00	3,000.00	Bituminous treated gravel	1,900
Wilmington	1,500.00	1,500.00	1,500.00	Maintenance	10,493
Winchester	22,000.00	14,000.00	8,000.00	Gravel foundation	1,380
Woburn	13,000.00	6,500.00	6,500.00	Bituminous treated gravel foundation and drainage	1,705
<u>Nantucket County</u>					
Nantucket	6,000.00	6,000.00	-	Bituminous road-mix	1,500
Nantucket	4,000.00	4,000.00	-	Maintenance	99,886
<u>Norfolk County</u>					
Avon	2,000.00	2,000.00	2,000.00	Maintenance	36,200
Bellingham	6,000.00	3,000.00	3,000.00	Grading and widening	1,050
Braintree	25,000.00	12,500.00	12,500.00	Base course and drainage	1,406
Braintree	15,000.00	7,500.00	7,500.00	Base course and drainage	1,406
Braintree	2,000.00	2,000.00	2,000.00	Maintenance	6,700
Brookline	29,000.00	14,500.00	14,500.00	Class I Bituminous Concrete	5,821
Canton	7,000.00	3,500.00	3,500.00	Class I Bituminous Concrete	1,500
Canton	1,000.00	1,000.00	1,000.00	Maintenance	18,300
Canton	1,000.00	1,000.00	1,000.00	Maintenance	23,812
Dedham	10,000.00	5,000.00	5,000.00	Class I Bituminous Con- crete and base course	1,200



# COUNTIES AND TOWNS

## Norfolk County

	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
Dover	\$ 3,500.00	\$ 1,750.00	\$ 1,750.00	Bituminous treated gravel	1,500
Dover	500.00	500.00	500.00	Maintenance	9,748
Foxborough	5,250.00	2,750.00	2,500.00	Bituminous road-mix	1,700
Foxborough	1,500.00	1,500.00	1,500.00	Maintenance	29,500
Franklin	6,900.00	6,900.00	-	Bituminous treated gravel	3,000
Holbrook	2,000.00	1,000.00	1,000.00	Grading	1,000
Medfield	1,000.00	1,000.00	1,000.00	Maintenance	22,634
Medway	5,000.00	2,500.00	2,500.00	Bituminous treated gravel	5,300
Medway	9,000.00	4,500.00	4,500.00	Bituminous treated gravel	2,500
Medway	1,000.00	1,000.00	1,000.00	Maintenance	32,270
Medway	1,000.00	1,000.00	1,000.00	Maintenance	41,820
Milton	12,000.00	6,000.00	6,000.00	Class I Bituminous Concrete	2,600
Needham	1,000.00	1,000.00	1,000.00	Maintenance	25,700
Norfolk	4,000.00	2,000.00	2,000.00	Bituminous treated gravel	1,700
Norfolk	1,000.00	1,000.00	1,000.00	Maintenance	29,398
Norwood	10,000.00	5,000.00	5,000.00	Class I Bituminous Concrete	2,925
Norwood	1,000.00	1,000.00	1,000.00	Maintenance	9,800
Quincy	32,500.00	16,250.00	16,250.00	Class I Bituminous Concrete	4,750
Quincy	7,500.00	3,750.00	3,750.00	Class I Bituminous Concrete	-
Randolph	8,000.00	4,000.00	4,000.00	Class I Bituminous Concrete	1,050
Sharon	7,000.00	7,000.00	-	Bituminous treated gravel	2,865
Sharon	1,500.00	1,500.00	1,500.00	Maintenance	42,746
Stoughton	8,500.00	4,250.00	4,250.00	Drainage system	-
Walpole	9,500.00	8,000.00	1,500.00	Bituminous road-mix	1,850
Walpole	2,000.00	2,000.00	2,000.00	Maintenance	36,242
Wellesley	6,000.00	3,000.00	3,000.00	Class I Bituminous Con- crete and drainage	1,470
Wellesley	7,000.00	3,500.00	3,500.00	Class I Bituminous Concrete	770
Westwood	7,000.00	3,500.00	3,500.00	Class I Bituminous Concrete	1,000
Westwood	1,000.00	1,000.00	1,000.00	Maintenance	26,579
Weymouth	4,500.00	2,250.00	2,250.00	Class I Bituminous Concrete	3,500
Wrentham	5,000.00	5,000.00	-	Bituminous treated gravel	2,000
Wrentham	1,500.00	1,500.00	1,500.00	Maintenance	27,023
Wrentham	1,500.00	1,500.00	1,500.00	Maintenance	43,373

## Plymouth County

Abington	3,750.00	1,875.00	1,875.00	Bridge and approaches	250
Abington	11,000.00	5,500.00	5,500.00	Class I Bituminous Concrete	2,640
Abington	6,000.00	3,000.00	3,000.00	Base course and curbing	773
Abington	1,000.00	1,000.00	1,000.00	Maintenance	7,011
Bridgewater	5,000.00	2,500.00	2,500.00	Drainage	1,610



# COUNTIES AND TOWNS

COUNTIES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
<u>Plymouth County</u>					
Brockton	\$ 3,750.00	\$ 1,875.00	\$ 1,875.00	Bridge and approaches	200
Brockton	34,000.00	17,000.00	17,000.00	Class I Bituminous Concrete	13,203
Carver	7,000.00	3,500.00	3,500.00	Bituminous road-mix	5,600
Duxbury	12,000.00	6,000.00	6,000.00	Class I Bituminous Concrete	2,085
Duxbury	8,000.00	4,000.00	4,000.00	Class I Bituminous Concrete	2,400
Duxbury	1,000.00	1,000.00	1,000.00	Maintenance	2,963
Hanover	6,000.00	3,000.00	3,000.00	Bituminous road-mix	3,392
Hanson	6,000.00	3,000.00	3,000.00	Class I Bituminous Concrete	4,375
Hingham	4,500.00	2,250.00	2,250.00	Drainage installation	1,622
Hingham	10,000.00	5,000.00	5,000.00	Class I Bituminous Concrete	2,000
Hull	10,000.00	5,000.00	5,000.00	Class I Bituminous Concrete	2,705
Kingston	7,500.00	3,750.00	3,750.00	Base course	1,650
Marion	4,000.00	2,000.00	2,000.00	Base course and gravel foundation	1,246
Marion	1,000.00	1,000.00	1,000.00	Maintenance	10,275
Marshfield	1,500.00	1,500.00	1,500.00	Maintenance	14,537
Mattapoisett	4,000.00	2,000.00	2,000.00	Grading and base course	1,408
Mattapoisett	1,000.00	1,000.00	1,000.00	Maintenance	10,000
Middleborough	12,000.00	6,000.00	6,000.00	Bituminous road-mix	10,097
Middleborough	5,000.00	5,000.00	5,000.00	Maintenance	55,554
Pembroke	6,000.00	3,000.00	3,000.00	Class I Bituminous Concrete	3,738
Pembroke	1,000.00	500.00	500.00	Drainage	470
Plymouth	14,000.00	7,000.00	7,000.00	Drainage system and Class I Bituminous Concrete	2,720
Plympton	6,000.00	2,000.00	4,000.00	Grading and base course	1,800
Rochester	6,000.00	3,000.00	3,000.00	Grading and surface treat- ment	5,650
Rochester	6,000.00	3,000.00	3,000.00	Grading and gravel foundation	5,400
Rockland	5,000.00	2,500.00	2,500.00	Base course (widening)	3,300
Rockland	1,500.00	750.00	750.00	Class I Bituminous Concrete	830
Scituate	10,000.00	5,000.00	5,000.00	Class I Bituminous Con- crete and drainage system	3,890
Wareham	12,000.00	6,000.00	6,000.00	Bituminous road-mix	9,330
West Bridgewater	1,000.00	1,000.00	1,000.00	Maintenance	12,600
Whitman	6,000.00	3,000.00	3,000.00	Base course	2,300
Whitman	8,000.00	4,000.00	4,000.00	Base course	4,850
Whitman	1,000.00	1,000.00	1,000.00	Maintenance	9,315
<u>Suffolk County</u>					
Boston	105,000.00	105,000.00	-	Class I Bituminous Concrete	10,825

## COUNTIES AND TOWNS

COUNTIES AND TOWNS	CONTRIBUTIONS		County	TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town			
<u>Suffolk County</u>					
Boston	\$50,000.00	\$50,000.00	\$ -	Class I Bituminous Concrete	3,524
Boston	45,000.00	45,000.00	-	Class I Bituminous Concrete	3,408
Boston	30,000.00	30,000.00	-	Class I Bituminous Concrete	2,789
Boston	50,000.00	50,000.00	-	Class I Bituminous Concrete	3,809
Boston	70,000.00	70,000.00	-	Class I Bituminous Concrete	5,800
Chelsea	17,000.00	17,000.00	-	Class I Bituminous Concrete	3,767
Winthrop	22,500.00	22,500.00	-	Class I Bituminous Concrete	1,845
Winthrop	1,800.00	3,600.00	-	Maintenance	200
<u>Worcester County</u>					
Ashburnham	3,000.00	1,500.00	1,500.00	Culvert	650
Ashburnham	2,000.00	2,000.00	2,000.00	Maintenance	19,400
Athol	1,800.00	1,800.00	1,800.00	Maintenance	19,200
Auburn	5,000.00	2,500.00	2,500.00	Bituminous road-mix	650
Auburn	2,500.00	1,250.00	1,250.00	Class I Bituminous Concrete	1,050
Auburn	1,600.00	1,600.00	1,600.00	Maintenance	29,351
Barre	11,000.00	5,500.00	5,500.00	Bituminous road-mix and Class I Bituminous Concrete	4,591
Barre	1,300.00	1,300.00	1,300.00	Maintenance	16,750
Berlin	3,000.00	1,500.00	1,500.00	Class I Bituminous Concrete	1,305
Berlin	1,000.00	1,000.00	1,000.00	Maintenance	17,660
Blackstone	5,000.00	2,500.00	2,500.00	Bituminous road-mix and bituminous treated gravel	780
Blackstone	800.00	800.00	800.00	Maintenance	14,037
Bolton	9,000.00	4,500.00	4,500.00	Grading and drainage	5,450
Bolton	2,000.00	2,000.00	2,000.00	Maintenance	12,000
Boylston	5,000.00	2,500.00	2,500.00	Grading	1,500
Boylston	900.00	900.00	900.00	Maintenance	10,275
Brookfield	1,000.00	1,000.00	1,000.00	Maintenance	18,500
Charlton	1,800.00	1,800.00	1,800.00	Maintenance	26,806
Clinton	1,000.00	1,000.00	1,000.00	Maintenance	33,601
Douglas	8,000.00	4,000.00	4,000.00	Class I Bituminous Concrete and drainage	1,450
Douglas	1,500.00	1,500.00	1,500.00	Maintenance	10,386
Dudley	7,000.00	3,500.00	3,500.00	Grading and drainage	1,070
Dudley	9,000.00	4,500.00	4,500.00	Bituminous road-mix and drainage	2,030
Dudley	1,500.00	1,500.00	1,500.00	Maintenance	39,170
East Brookfield	1,000.00	1,000.00	1,000.00	Maintenance	19,200



## COUNTIES AND TOWNS

## CONTRIBUTIONS

TYPE OF ROAD OR  
NATURE OF WORKLENGTH CON-  
TRACTED FOR  
(Feet)

State

Town

County

## Worcester County

Fitchburg	\$27,000.00	\$13,500.00	\$13,500.00	Class I Bituminous Concrete	1,600
Gardner	12,000.00	6,000.00	6,000.00	Base course and drainage	2,600
Grafton	1,500.00	1,500.00	1,500.00	Maintenance	16,665
Hardwick	1,300.00	1,300.00	1,300.00	Maintenance	19,300
Harvard	3,600.00	1,800.00	1,800.00	Base course	1,900
Harvard	1,200.00	-	-	Maintenance	650
Harvard	2,000.00	2,000.00	2,000.00	Maintenance	22,170
Holden	1,500.00	1,500.00	1,500.00	Maintenance	14,300
Hopedale	1,500.00	750.00	750.00	Class I Bituminous Concrete	150
Hopedale	200.00	200.00	200.00	Maintenance	3,143
Hubbardston	5,000.00	2,500.00	2,500.00	Grading and drainage	1,500
Hubbardston	2,000.00	2,000.00	2,000.00	Maintenance	29,215
Lancaster	6,500.00	3,250.00	3,250.00	Class I Bituminous Concrete	850
Lancaster	800.00	800.00	800.00	Maintenance	4,150
Leicester	7,500.00	3,750.00	3,750.00	Drainage	1,460
Leicester	7,000.00	3,500.00	3,500.00	Class I Bituminous Concrete and drainage	1,200
Leicester	1,500.00	1,500.00	1,500.00	Maintenance	18,900
Leominster	19,000.00	9,500.00	9,500.00	Class I Bituminous Concrete	1,450
Lunenburg	11,000.00	5,500.00	5,500.00	Bituminous road-mix and drainage	3,803
Lunenburg	2,000.00	2,000.00	2,000.00	Maintenance	22,820
Mendon	1,500.00	1,500.00	1,500.00	Maintenance	27,560
Milford	10,000.00	5,000.00	5,000.00	Class I Bituminous Concrete	1,011
Milford	1,500.00	1,500.00	1,500.00	Maintenance	43,993
Millbury	5,000.00	2,500.00	2,500.00	Bituminous road-mix and drainage	900
Millbury	1,300.00	1,300.00	1,300.00	Maintenance	45,294
Millville	200.00	200.00	200.00	Maintenance	5,500
New Braintree	5,000.00	2,500.00	2,500.00	Bituminous road-mix	2,815
New Braintree	6,000.00	3,000.00	3,000.00	Grading and drainage	4,800
New Braintree	1,500.00	1,500.00	1,500.00	Maintenance	19,900
North Brookfield	1,000.00	1,000.00	1,000.00	Maintenance	21,503
Northborough	5,000.00	2,500.00	2,500.00	Bituminous road-mix	1,300
Northborough	5,000.00	2,500.00	2,500.00	Bituminous road-mix	1,300
Northborough	1,000.00	1,000.00	1,000.00	Maintenance	8,524
Northbridge	5,000.00	2,500.00	2,500.00	Class I Bituminous Concrete and widening	640
Northbridge	11,000.00	5,500.00	5,500.00	Bituminous road-mix	2,665
Northbridge	1,900.00	1,900.00	1,900.00	Maintenance	57,094
Oakham	5,000.00	2,500.00	2,500.00	Multi-plate pipe arch	100
Oakham	1,400.00	1,400.00	1,400.00	Maintenance	19,531
Oxford	5,000.00	2,500.00	2,500.00	Bituminous road-mix and drainage	1,088
Oxford	1,000.00	1,000.00	1,000.00	Maintenance	16,968
Paxton	6,000.00	3,000.00	3,000.00	Bituminous road-mix and drainage	1,950
Paxton	1,400.00	1,400.00	1,400.00	Maintenance	11,020



COUNTIES AND TOWNS	CONTRIBUTIONS			TYPE OF ROAD OR NATURE OF WORK	LENGTH CON- TRACTED FOR (Feet)
	State	Town	County		
Worcester County					
Petersham	\$ 4,000.00	\$ 2,000.00	\$ 2,000.00	Bituminous road-mix and drainage	850
Petersham	1,000.00	1,000.00	1,000.00	Maintenance	16,670
Phillipston	1,000.00	500.00	500.00	Spillway replacement and repairs to culvert	-
Phillipston	1,400.00	1,400.00	1,400.00	Maintenance	20,000
Princeton	6,000.00	3,000.00	3,000.00	Grading and drainage	3,800
Princeton	3,000.00	3,000.00	3,000.00	Maintenance	41,261
Royalston	6,000.00	3,000.00	3,000.00	Multi-plate pipe arch	650
Royalston	1,500.00	1,500.00	1,500.00	Maintenance	28,500
Rutland	6,000.00	3,000.00	3,000.00	Class I Bituminous Con- crete and drainage	2,005
Rutland	2,600.00	2,600.00	2,600.00	Maintenance	23,100
Shrewsbury	9,000.00	4,500.00	4,500.00	Drainage trunk line	2,060
Shrewsbury	1,000.00	1,000.00	1,000.00	Maintenance	10,900
Southborough	4,000.00	2,000.00	2,000.00	Bituminous macadam and drainage	745
Southborough	1,600.00	800.00	800.00	Drainage	470
Southborough	5,000.00	2,500.00	2,500.00	Bituminous macadam	968
Southborough	800.00	800.00	800.00	Maintenance	11,665
Southbridge	1,000.00	1,000.00	1,000.00	Maintenance	52,046
Spencer	9,000.00	4,500.00	4,500.00	Class I Bituminous Con- crete and drainage	1,600
Spencer	1,000.00	1,000.00	1,000.00	Maintenance	15,500
Sterling	4,000.00	2,000.00	2,000.00	Bituminous road-mix	1,625
Sterling	2,000.00	2,000.00	2,000.00	Maintenance	36,650
Sturbridge	6,000.00	3,000.00	3,000.00	Grading and drainage	3,110
Sturbridge	700.00	-	-	Bailey Bridge	75
Sturbridge	800.00	800.00	800.00	Maintenance	13,300
Sutton	9,000.00	4,500.00	4,500.00	Bituminous road-mix and drainage	3,145
Sutton	1,400.00	1,400.00	1,400.00	Maintenance	25,950
Templeton	2,000.00	2,000.00	2,000.00	Maintenance	32,300
Upton	1,500.00	1,500.00	1,500.00	Maintenance	107,067
Uxbridge	16,000.00	8,000.00	8,000.00	Class I Bituminous Concrete	3,050
Uxbridge	2,000.00	2,000.00	2,000.00	Maintenance	84,560
Warren	5,000.00	2,500.00	2,500.00	Grading	1,800
Warren	400.00	400.00	400.00	Maintenance	6,500
Webster	5,000.00	2,500.00	2,500.00	Grading and drainage	750
Webster	10,000.00	5,000.00	5,000.00	Base course	1,475
Webster	1,000.00	1,000.00	1,000.00	Maintenance	37,784
West Boylston	5,000.00	2,500.00	2,500.00	Bituminous road-mix and drainage	920
West Boylston	1,500.00	1,500.00	1,500.00	Maintenance	19,079
West Brookfield	900.00	900.00	-	Bridge repairs	-
West Brookfield	1,000.00	1,000.00	1,000.00	Maintenance	3,560
Westborough	6,500.00	3,250.00	3,250.00	Drainage system	1,200
Westborough	1,600.00	1,600.00	1,600.00	Maintenance	38,448
Westminster	9,000.00	2,000.00	5,000.00	Bituminous road-mix	797
Westminster	3,000.00	3,000.00	3,000.00	Maintenance	42,150

COUNTIES AND TOWNS

	<u>State</u>	<u>CONTRIBUTIONS</u> <u>Town</u>	<u>County</u>	<u>TYPE OF ROAD OR</u> <u>NATURE OF WORK</u>	<u>LENGTH CON-</u> <u>TRACTED FOR</u> <u>(Feet)</u>
<u>Worcester County</u>					
Winchendon	\$ 4,000.00	\$ 2,000.00	\$ 2,000.00	Class I Bituminous Concrete	2,750
Winchendon	8,000.00	4,000.00	4,000.00	Class I Bituminous Con- crete and drainage	1,800
Winchendon	1,400.00	1,400.00	1,400.00	Maintenance	19,250
Worcester	67,500.00	33,750.00	33,750.00	Class I Bituminous Concrete	4,540

### CHAPTER 81 ACTIVITIES

The total amount appropriated for the repairs and improvement of public ways in small towns (Chapter 81 work) as provided by section 26 of Chapter 81 of the General Laws, for the fiscal year ending June 30, 1954 was \$2,600,000.

During the current calendar year, ending December 31, 1954, 182 towns (as listed on the <sup>following</sup> ~~attached~~ sheets) with a total of 9366 miles of public ways, are participating in this type of work. Under this program a total of \$3,371,880 is being spent, of which the State pays \$2,575,650 and the towns pay \$796,230.

During the calendar year ending December 31, 1953, 54 towns took advantage of Chapter 523, Acts of 1946, as amended by Chapter 706 and Chapter 810 of the Acts of 1949 and have spent \$51,079.97 for snow removal.



EXPENDITURES FOR SNOW REMOVAL IN

CHAPTER 81 TOWNS BY COUNTIES

<u>COUNTY</u>	<u>NUMBER OF TOWNS</u>	<u>AMOUNT</u>
Barnstable	- - -	None
Berkshire	13	\$12,807.13
Bristol	2	4,003.82
Dukes	- - -	None
Essex	1	2,078.40
Franklin	6	3,123.97
Hampden	8	9,015.75
Hampshire	9	8,686.20
Middlesex	4	1,597.50
Norfolk	- - -	None
Plymouth	- - -	None
Worcester	<u>11</u>	<u>9,767.20</u>
Totals	54	\$51,079.97

# REPAIR AND IMPROVEMENT OF PUBLIC WAYS, EXCLUSIVE OF STATE HIGHWAYS IN CERTAIN TOWNS

(Sections 26 to 29 and 31 of Chapter 81 of the General Laws, Tercentenary Edition, as amended)

During the year the Department contracted for work to be done in the towns named in the following table, which also shows the road mileage in the towns and the allotments or contributions by the State and towns, including the amount which may be used for snow removal (under the provisions of Chapter 523 of the Acts of 1946, as amended by Chapter 706 and Chapter 810 of the Acts of 1949).

COUNTIES AND TOWNS	MILES OF ROAD	ALLOTMENT		MAXIMUM AMOUNT FOR SNOW REMOVAL (included in total)
		State	Town	
<u>Barnstable County</u>				
Brewster	39	\$10,725.00	\$ 4,875.00	\$ 2,925.00
Dennis	83	22,825.00	10,375.00	6,225.00
Eastham	39	10,725.00	3,900.00	2,925.00
Mashpee	26	7,150.00	2,600.00	1,950.00
Sandwich	67	18,425.00	6,700.00	5,025.00
Truro	30	8,250.00	3,750.00	2,250.00
Wellfleet	42	11,550.00	5,250.00	3,150.00
<u>Berkshire County</u>				
Alford	18	4,950.00	720.00	1,350.00
Becket	60	16,500.00	2,400.00	4,500.00
Cheshire	44	12,100.00	3,300.00	3,300.00
Clarksburg	14	3,850.00	2,100.00	1,050.00
Egremont	35	9,625.00	2,625.00	2,625.00
Florida	44	12,100.00	3,300.00	3,300.00
Hancock	28	7,700.00	1,400.00	2,100.00
Hinsdale	37	10,175.00	2,775.00	2,775.00
Lanesborough	45	12,375.00	3,375.00	3,375.00
Monterey	51	14,025.00	2,040.00	3,825.00
Mount Washington	20	5,500.00	500.00	1,500.00
New Ashford	11	3,025.00	275.00	825.00
New Marlborough	89	24,475.00	3,560.00	6,675.00
Otis	43	11,825.00	1,720.00	3,225.00
Peru	37	10,175.00	555.00	2,775.00
Richmond	34	9,350.00	2,550.00	2,550.00
Sandisfield	84	23,100.00	1,260.00	6,300.00
Savoy	57	15,675.00	855.00	4,275.00
Sheffield	79	21,725.00	3,950.00	5,925.00
Tyringham	25	6,875.00	1,250.00	1,875.00
Washington	52	14,300.00	780.00	3,900.00
West Stockbridge	33	9,075.00	3,300.00	2,475.00
Windsor	65	17,875.00	975.00	4,875.00

COUNTIES AND TOWNS	MILES OF ROAD	ALLOTMENT		MAXIMUM AMOUNT FOR SNOW REMOVAL (included in total)
		State	Town	
<u>Bristol County</u>				
Berkley	41	\$11,275.00	\$ 3,075.00	\$ 3,075.00
Dighton	49	13,475.00	7,350.00	3,675.00
Freetown	47	12,925.00	3,525.00	3,525.00
Norton	59	16,225.00	5,900.00	4,425.00
Raynham	45	12,375.00	4,500.00	3,375.00
Rehoboth	111	30,525.00	8,325.00	8,325.00
Swansea	68	18,700.00	10,200.00	5,100.00
<u>Dukes County</u>				
Chilmark	14	3,850.00	1,750.00	1,050.00
Gay Head	4	1,100.00	500.00	300.00
West Tisbury	14	3,850.00	1,750.00	1,050.00
<u>Essex County</u>				
Boxford	56	15,400.00	2,800.00	4,200.00
Essex	26	7,150.00	3,900.00	1,950.00
Georgetown	37	10,175.00	4,625.00	2,775.00
Groveland	30	8,250.00	3,750.00	2,250.00
Merrimac	32	8,800.00	4,800.00	2,400.00
Middleton	32	8,800.00	4,800.00	2,400.00
Newbury	43	11,825.00	5,375.00	3,225.00
Rowley	33	9,075.00	4,125.00	2,475.00
Topsfield	40	11,000.00	6,000.00	3,000.00
West Newbury	40	11,000.00	4,000.00	3,000.00
<u>Franklin County</u>				
Ashfield	79	21,725.00	3,160.00	5,925.00
Barnardston	40	11,000.00	3,000.00	3,000.00
Buckland	46	12,650.00	6,900.00	3,450.00
Charlemont	47	12,925.00	2,350.00	3,525.00
Colrain	85	23,375.00	4,250.00	6,375.00
Conway	71	19,525.00	2,840.00	5,325.00
Deerfield	76	20,900.00	9,500.00	5,700.00
Gill	34	9,350.00	2,550.00	2,550.00
Hawley	49	13,475.00	735.00	3,675.00
Heath	54	14,850.00	810.00	4,050.00
Leverett	34	9,350.00	1,360.00	2,550.00
Leyden	40	11,000.00	600.00	3,000.00
Monroe	18	4,950.00	2,250.00	1,350.00
New Salem	37	10,175.00	555.00	2,775.00
Northfield	65	17,875.00	4,875.00	4,875.00
Orange	77	21,175.00	11,550.00	5,775.00
Rowe	40	11,000.00	1,600.00	3,000.00



COUNTIES AND TOWNS	MILES OF ROAD	ALLOTMENT		MAXIMUM AMOUNT FOR SNOW REMOVAL (included in total)
		State	Town	
<u>Franklin County</u>				
Belburne	49	\$13,475.00	\$7,350.00	\$3,675.00
Whitesbury	35	9,625.00	875.00	2,625.00
Wunderland	35	9,625.00	3,500.00	2,625.00
Warwick	56	15,400.00	840.00	4,200.00
Wendell	48	13,200.00	720.00	3,600.00
Whately	40	11,000.00	3,000.00	3,000.00
<u>Hampden County</u>				
Danversford	70	19,250.00	2,800.00	5,250.00
Brimfield	63	17,325.00	2,520.00	4,725.00
Chester	69	18,975.00	3,450.00	5,175.00
Granville	74	20,350.00	5,550.00	5,550.00
Hampden	34	9,350.00	2,550.00	2,550.00
Holland	34	9,350.00	510.00	2,550.00
Monson	104	28,600.00	7,800.00	7,800.00
Montgomery	28	7,700.00	700.00	2,100.00
Southwick	54	14,850.00	5,400.00	4,050.00
Tolland	40	11,000.00	1,000.00	3,000.00
Wales	25	6,875.00	1,000.00	1,875.00
Wilbraham	50	13,750.00	7,500.00	3,750.00
<u>Hampshire County</u>				
Belchertown	103	28,325.00	4,120.00	7,725.00
Chesterfield	58	15,950.00	1,450.00	4,350.00
Cummington	49	13,475.00	1,225.00	3,675.00
Goshen	29	7,975.00	1,160.00	2,175.00
Granby	51	14,025.00	2,550.00	3,825.00
Hadley	61	16,775.00	7,625.00	4,575.00
Hatfield	50	13,750.00	7,500.00	3,750.00
Huntington	38	10,450.00	2,850.00	2,850.00
Middlefield	41	11,275.00	615.00	3,075.00
Pelham	20	5,500.00	2,000.00	1,500.00
Plainfield	48	13,200.00	720.00	3,600.00
Southampton	57	15,675.00	2,850.00	4,275.00
Westhampton	45	12,375.00	675.00	3,375.00
Williamsburg	41	11,275.00	4,100.00	3,075.00
Worthington	68	18,700.00	1,700.00	5,100.00
<u>Middlesex County</u>				
Acton	57	15,675.00	8,550.00	4,275.00
Ashby	59	16,225.00	2,950.00	4,425.00
Ashland	42	11,550.00	6,300.00	3,150.00
Bedford	43	11,825.00	6,450.00	3,225.00
Boxborough	23	6,325.00	920.00	1,725.00
Burlington	43	11,825.00	5,375.00	3,225.00

COUNTIES AND TOWNS	MILES OF ROAD	ALLOTMENT		MAXIMUM AMOUNT FOR SNOW REMOVAL (included in total)
		State	Town	
<u>Middlesex County</u>				
Carlisle	41	\$ 11,275.00	\$ 3,075.00	\$ 3,075.00
Dracut	84	23,100.00	10,500.00	6,300.00
Dunstable	37	10,175.00	925.00	2,775.00
Groton	76	20,900.00	11,400.00	5,700.00
Holliston	53	14,575.00	7,950.00	3,975.00
Hopkinton	69	18,975.00	8,625.00	5,175.00
Littleton	42	11,550.00	6,300.00	3,150.00
North Reading	40	11,000.00	6,000.00	3,000.00
Pepperell	70	19,250.00	7,000.00	5,250.00
Sherborn	43	11,825.00	6,450.00	3,225.00
Shirley	46	12,650.00	5,750.00	3,450.00
Stow	42	11,550.00	3,150.00	3,150.00
Sudbury	67	18,425.00	10,050.00	5,025.00
Tewksbury	72	19,800.00	10,800.00	5,400.00
Townsend	71	19,525.00	5,325.00	5,325.00
Tyngsborough	45	12,375.00	3,375.00	3,375.00
Westford	82	22,550.00	10,250.00	6,150.00
Wilmington	64	17,600.00	9,600.00	4,800.00
<u>Norfolk County</u>				
Bellingham	57	15,675.00	7,125.00	4,275.00
Medfield	43	11,825.00	6,450.00	3,225.00
Medway	45	12,375.00	6,750.00	3,375.00
Millis	42	11,550.00	6,300.00	3,150.00
Norfolk	45	12,375.00	3,375.00	3,375.00
Plainville	34	9,350.00	4,250.00	2,550.00
<u>Plymouth County</u>				
Carver	65	17,875.00	6,500.00	4,875.00
Halifax	37	10,175.00	3,700.00	2,775.00
Hanson	40	11,000.00	6,000.00	3,000.00
Lakeville	44	12,100.00	4,400.00	3,300.00
Norwell	48	13,200.00	6,000.00	3,600.00
Pembroke	50	13,750.00	7,500.00	3,750.00
Plympton	31	8,525.00	2,325.00	2,325.00
Rochester	51	14,025.00	3,825.00	3,825.00
<u>Worcester County</u>				
Ashburnham	77	21,175.00	5,775.00	5,775.00
Barre	99	27,225.00	7,425.00	7,425.00
Berlin	40	11,000.00	3,000.00	3,000.00
Blackstone	36	9,900.00	5,400.00	2,700.00
Belton	53	14,575.00	2,650.00	3,975.00
Boylston	34	9,350.00	2,550.00	2,550.00

COUNTIES AND TOWNS	MILES OF ROAD	ALLOTMENT		MAXIMUM AMOUNT FOR SNOW REMOVAL (included in total)
		State	Town	
<u>Worcester County</u>				
Brookfield	36	\$ 9,900.00	\$ 3,600.00	\$ 2,700.00
Charlton	110	30,250.00	5,500.00	8,250.00
Douglas	71	19,525.00	5,325.00	5,325.00
Dudley	69	18,975.00	8,625.00	5,175.00
East Brookfield	19	5,225.00	2,375.00	1,425.00
Grafton	73	20,075.00	10,950.00	5,475.00
Hardwick	87	23,925.00	4,350.00	6,525.00
Harvard	57	15,675.00	5,700.00	4,275.00
Holden	83	22,825.00	10,375.00	6,225.00
Hubbardston	76	20,900.00	1,900.00	5,700.00
Lancaster	55	15,125.00	6,875.00	4,125.00
Leicester	69	18,975.00	8,625.00	5,175.00
Lunenburg	75	20,625.00	5,625.00	5,625.00
Mendon	37	10,175.00	3,700.00	2,775.00
Millville	17	4,675.00	2,125.00	1,275.00
New Braintree	52	14,300.00	1,300.00	3,900.00
North Brookfield	68	18,700.00	6,800.00	5,100.00
Northborough	52	14,300.00	5,200.00	3,900.00
Oakham	44	12,100.00	1,100.00	3,300.00
Oxford	70	19,250.00	8,750.00	5,250.00
Paxton	29	7,975.00	2,900.00	2,175.00
Petersham	66	18,150.00	3,300.00	4,950.00
Phillipston	44	12,100.00	660.00	3,300.00
Princeton	73	20,075.00	2,920.00	5,475.00
Royalston	73	20,075.00	1,825.00	5,475.00
Rutland	60	16,500.00	4,500.00	4,500.00
Southborough	47	12,925.00	7,050.00	3,525.00
Spencer	97	26,675.00	12,125.00	7,275.00
Sterling	72	19,800.00	5,400.00	5,400.00
Sturbridge	73	20,075.00	5,475.00	5,475.00
Sutton	87	23,925.00	6,525.00	6,525.00
Templeton	66	18,150.00	8,250.00	4,950.00
Upton	60	16,500.00	4,500.00	4,500.00
Warren	69	18,975.00	6,900.00	5,175.00
West Boylston	40	11,000.00	6,000.00	3,000.00
West Brookfield	53	14,575.00	3,975.00	3,975.00
Westborough	64	17,600.00	9,600.00	4,800.00
Westminster	80	22,000.00	6,000.00	6,000.00



## CONSTRUCTION AND RECONSTRUCTION OF STATE HIGHWAYS

~~July 1, 1953 - June 30, 1954~~

(Chapter 81, General Laws, as amended)

The following contracts were entered into during the year for the construction and reconstruction of State highways, and work incidental thereto, in various municipalities.

### SUFFOLK AND NORFOLK COUNTIES

July 7, 1953, contract made with Eastern Tree & Landscape Corporation of Dedham, for mowing grassed areas along Truman Highway. The proposal amounted to \$4,140.00. Work completed October 16, 1953. Expenditure during fiscal year \$2,208.00.

### BRISTOL COUNTY

July 7, 1953, contract made with Lind & Sons of Randolph, for mowing grassed areas along Route 44. The proposal amounted to \$11,500.00. Work completed October 9, 1953. Expenditure during fiscal year \$1,800.00.

### ESSEX COUNTY

July 7, 1953, contract made with Wogan Lawn Service of Manchester, Inc. of Manchester, for mowing grassed areas along New Route 1. The proposal amounted to \$5,070.00. Work completed October 13, 1953. Expenditure during fiscal year \$1,950.00.

### BARNSTABLE COUNTY

July 7, 1953, contract made with Eastern Tree and Landscape Corporation of Dedham, for mowing grassed areas along Route 6. The proposal amounted to \$6,210.00. Work completed October 2, 1953. Expenditure during fiscal year \$2,070.00.

### WORCESTER COUNTY

July 7, 1953, contract made with Duggan Construction Co. of Whitinsville, for mowing grassed areas along Route 146. The proposal amounted to \$10,000.00. Work completed November 1, 1953. Expenditure during fiscal year \$4,600.00.

### HAVERHILL

July 7, 1953, contract made with Thomas W. Watkins & Son, Incorporated of Amesbury, for reconstructing about 1,658 feet of Plaistow Road; the surface consisting of bituminous concrete. The proposal amounted to \$35,778.80. Work completed October 9, 1953. Expenditure during fiscal year \$37,742.83.

### ACTION

July 14, 1953, contract made with Daniel D'Onfro's Sons of Leominster, for constructing single span steel stringer bridge over Assabet River and constructing bituminous concrete approaches thereto. The proposal amounted to \$86,179.00. Work completed June 31, 1954. Expenditure during fiscal year \$88,421.38.

FALMOUTH

July 14, 1953, contract made with Thomas Bros. Corp. of Middleboro, for reconstructing about 2,205 feet of State highway on Waquoit Road including a three span timber pile bent bridge with a composite timber and concrete deck over Coonamesett River; the surface consisting of bituminous concrete. The proposal amounted to \$110,678.00. Work completed May 29, 1954. Expenditure during fiscal year \$115,050.44.

TRURO

July 14, 1953, contract made with M. F. Roach Company of East Bridgewater, for reconstructing about 18,000 feet of State highway on Route 6 and constructing a three-span reinforced concrete beam and slab bridge; the surface consisting of bituminous concrete. The proposal amounted to \$871,565.50. This work is now in progress.

BILLERICA

July 14, 1953, contract made with Coleman Bros. Corporation of Boston, for constructing about 2,250 feet of State highway (two divided roadways) on the Middlesex Pike Relocation including a three-span steel stringer bridge and approaches on Manning Road Relocation; the surface consisting of bituminous concrete. The proposal amounted to \$343,990.50. This work is now in progress.

WELLESLEY

July 14, 1953, contract made with Louis Recine of Newton, for constructing stairway and walk at the northeasterly corner of the Cedar Street Bridge over the Worcester Turnpike. The proposal amounted to \$2,600.00. Work completed September 16, 1953. Expenditure during fiscal year \$2,600.00.

WORTHINGTON

July 14, 1953, contract made with R. W. LeBaron, Inc. of Arlington, for furnishing and installing traffic control signals at the junction of Routes 143, 112 and Road to Peru. The proposal amounted to \$3,684.00. Work completed September 11, 1953. Expenditure during fiscal year \$3,684.00.

LYNNFIELD-WAKEFIELD

July 14, 1953, contract made with G. Rotondi & Sons of Melrose, for reconstructing highway shoulders on the Northern Circumferential Highway with bituminous concrete; the total distance being about 14,120 feet. The proposal amounted to \$34,978.00. Work completed October 3, 1953. Expenditure during fiscal year \$30,247.36.

SOMERVILLE

July 14, 1953, contract made with Municipal Signal & Supply Company of Boston, for furnishing and installing traffic control signals at the intersection of Route 38 (Mystic Avenue) and Shore Drive. The proposal amounted to \$3,165.00. Work completed August 18, 1953. Expenditure during fiscal year \$3,286.00.



PROVINCETOWN-TRURO

July 14, 1953, contract made with M. DeMatteo Construction Co. of Quincy, for constructing about 5 1/2 miles of State highway on new location (Route 6); the surface consisting of bituminous concrete. The proposal amounted to \$1,328,172.35. This work is now in progress.

WEST SPRINGFIELD

July 21, 1953, contract made with Berke Moore Company, Inc. of Boston, for constructing an auxiliary outlet sewer on Warren Street. The proposal amounted to \$104,910.00. This work is now in progress.

NANTUCKET

July 21, 1953, contract made with Town of Nantucket for maintenance of the State highway. The proposal amounted to \$2,000.00. Work completed December 31, 1953. Expenditure during fiscal year \$506.10.

PLYMOUTH COUNTY

August 5, 1953, contract made with Forrester Tree Service of Weymouth, for removing trees on State highways. The proposal amounted to \$4,628.00. Work completed October 20, 1953. Expenditure during fiscal year \$4,628.00.

FRANKLIN AND HAMPSHIRE COUNTIES

August 5, 1953, contract made with W. W. Wyman, Inc. of Greenfield, for removing trees on State highways. The proposal amounted to \$11,390.00. Work completed November 6, 1953. Expenditure during fiscal year \$11,977.38.

MIDDLESEX COUNTY

August 5, 1953, contract made with Harvard Tree Service of Harvard, for removing trees and stumps on State highways. The proposal amounted to \$15,990.00. Work completed December 9, 1953. Expenditure during fiscal year \$15,952.00.

BERKSHIRE COUNTY

August 5, 1953, contract made with R. M. Gibbs Tree Service of Pittsfield, for removing trees and stumps on State highways. The proposal amounted to \$7,587.25. Work completed January 16, 1954. Expenditure during fiscal year \$7,614.75.

HAMPSHIRE AND HAMPDEN COUNTIES

August 5, 1953, contract made with Eastern Tree & Landscape Corporation of Dedham, for removing trees on State highways. The proposal amounted to \$11,616.00. Work completed November 23, 1953. Expenditure during fiscal year \$8,860.00.

HUNTINGTON-WORTHINGTON

August 5, 1953, contract made with R. M. Gibbs Tree Service of Pittsfield, for removing trees and stumps on State highways. The proposal amounted to \$8,525.00. Work completed December 1, 1953. Expenditure during fiscal year \$8,503.00.



WORCESTER COUNTY

August 5, 1953, contract made with Black's Tree Service, Inc. of Boston, for removing trees on State highways. The proposal amounted to \$10,838.00. Work completed October 15, 1953. Expenditure during fiscal year \$10,900.00.

LOWELL

August 5, 1953, contract made with Coleman Bros. Corporation of Boston, for constructing approaches to the Hunt's Falls Bridge including a traffic circle at the north end of the bridge; the relocation of Lawrence Boulevard and constructing two steel stringer bridges and connecting ramps; the total length being about 3,486 feet; the surface consisting of bituminous concrete. The proposal amounted to \$747,734.00. This work is now in progress.

WELLESLEY

August 5, 1953, contract made with Municipal Signal & Supply Company of Boston, for furnishing and installing traffic control signals at the junction of Route 9 and Arnold Road. The proposal amounted to \$4,347.00. Work completed October 8, 1953. Expenditure during fiscal year \$4,462.50.

BRISTOL AND NORFOLK COUNTIES

August 5, 1953, contract made with MacQuinn Tree Service of Weymouth, for removing trees and stumps on State highways. The proposal amounted to \$16,997.00. Work completed August 5, 1953. Expenditure during fiscal year \$16,023.00.

HADLEY

August 11, 1953, contract made with Warner Bros. Inc. of Sunderland, for widening and resurfacing a section of State highway on Amherst Road for a distance of about 14,700 feet. The proposal amounted to \$252,999.50. Work completed June 11, 1954. Expenditure during fiscal year \$245,345.18.

BOLTON

August 11, 1953, contract made with Bayer & Mingolla Construction Company, Inc. of Worcester, for constructing about 2.641 miles of State highway on Main Street (Route 117); the surface consisting of bituminous concrete. The proposal amounted to \$385,986.35. This work is now in progress.

WEST SPRINGFIELD

August 11, 1953, contract made with Daniel O'Connell's Sons, Inc. of Holyoke, for constructing about 3,900 feet of State highway (two separated roadways) including a single-span steel-girder bridge carrying the tracks of the Boston and Albany Railroad; the surface consisting of bituminous concrete; also constructing about 425 feet of stone-faced dike along the shore of the Connecticut River. The proposal amounted to \$804,749.00. This work is now in progress.

BURLINGTON

August 11, 1953, contract made with Campanella & Cardi Construction Company of Hills Grove, Rhode Island, for constructing about 4,000 feet of State highway (two divided roadways) on Middlesex Pike Relocation; the surface consisting of bituminous concrete;

also constructing two 2-span steel stringer bridges over the Northern Circumferential Highway with connecting ramps. The proposal amounted to \$1,645,999.25. This work is now in progress.

BROCKTON-EASTON

August 11, 1953, contract made with Stoughton Crushed Stone Co. of Stoughton, for widening and resurfacing about 11,312 feet of State highway on Belmont Street; the surface consisting of bituminous concrete. The proposal amounted to \$97,098.88. Work completed December 10, 1953. Expenditure during fiscal year \$98,388.82.

OTIS

August 11, 1953, contract made with Mackin Sand & Concrete Products Co. of Greenfield, for surface treatment of about 44,599 feet of State highway on Auto Route 23 with bitumen and crushed stone. The proposal amounted to \$12,495.00. Work completed October 14, 1953. Expenditure during fiscal year \$13,036.93.

CHARLEMONT

August 11, 1953, contract made with Mackin Sand & Concrete Products Co. of Greenfield, for constructing a truck turn-out on Auto Route 2; the surface consisting of bituminous concrete. The proposal amounted to \$4,830.00. Work completed October 21, 1953. Expenditure during fiscal year \$5,892.90.

TEMPLETON-WINCHENDON

August 11, 1953, contract made with Mackin Sand & Concrete Products Co. of Greenfield, for surface treatment of about 21,161 feet of State highway on Route 202 with bitumen and crushed stone. The proposal amounted to \$8,740.00. Work completed September 25, 1953. Expenditure during fiscal year \$8,639.19.

FALMOUTH

August 11, 1953, contract made with Stoughton Crushed Stone Co. of Stoughton, for resurfacing about 22,835 feet of State highway on Auto Route 28 with bituminous concrete. The proposal amounted to \$91,225.00. Work completed October 24, 1953. Expenditure during fiscal year \$91,580.07.

ORLEANS

August 18, 1953, contract made with M. F. Roach Company of East Bridgewater, for surfacing about 23,403 feet of State highway on Chatham Road; the surface consisting of bituminous concrete. The proposal amounted to \$81,235.00. Work completed November 10, 1953. Expenditure during fiscal year \$93,311.49.

MILLBURY-SUTTON

August 18, 1953, contract made with Bayer & Mingolla Construction Company, Inc. of Worcester, for constructing bituminous concrete shoulders and berms on the Providence Turnpike for a distance of about 17,694 feet. The proposal amounted to \$42,742.00. Work completed June 10, 1954. Expenditure during fiscal year \$41,619.31.



WEXMOUTH

August 25, 1953, contract made with R. A. Buccella & Sons, Inc. of Boston, for drainage installation on Bridge Street and Bicknell School Property. The proposal amounted to \$8,842.75. Work completed October 13, 1953. Expenditure during fiscal year \$8,051.26.

DARTMOUTH

September 1, 1953, contract made with Theodore Loranger & Sons of New Bedford, for drainage installation on Kempton Street. The proposal amounted to \$7,828.00. Work completed November 12, 1953. Expenditure during fiscal year \$6,575.51.

ROWLEY

September 1, 1953, contract made with Municipal Signal & Supply Company of Boston, for furnishing and installing traffic control signals at the intersection of Route 1A at Church and Hammond Streets. The proposal amounted to \$5,428.00. Work completed November 20, 1953. Expenditure during fiscal year \$5,428.00.

MARLBOROUGH

September 1, 1953, contract made with R. W. LeBaron, Inc. of Arlington, for furnishing and installing traffic control signals on Main Street at Bolton and Howe Streets and at Pleasant and South Streets. The proposal amounted to \$7,580.00. Work completed December 15, 1953. Expenditure during fiscal year \$7,580.00.

GREENFIELD

September 1, 1953, contract made with Bruschi Brothers of Ludlow, for drainage installation on Bernardston Road. The proposal amounted to \$5,609.17. Work completed October 8, 1953. Expenditure during fiscal year \$5,609.17.

LEICESTER

September 1, 1953, contract made with Hill Construction Company of Millbury, for cutting back a rock ledge on Route 9 for a distance of about 700 feet. The proposal amounted to \$10,594.00. Work completed November 4, 1953. Expenditure during fiscal year \$11,724.23.

DUXBURY-PEMBROKE

September 1, 1953, contract made with Sacco Construction Co. of Bellingham, for treating about 39,299 feet of surface on Auto Route 3 with bitumen and pre-treated crushed stone. The proposal amounted to \$16,449.00. Work completed October 19, 1953. Expenditure during fiscal year \$16,978.46.

WORCESTER

September 1, 1953, contract made with Bayer & Mingolla Construction Company, Inc. of Worcester, for constructing drive-ways and parking areas at the Public Works District Office Building on Belmont Street. The proposal amounted to \$53,231.70. Work completed May 19, 1954. Expenditure during fiscal year \$57,172.61.

EGREMONT

September 1, 1953, contract made with Nat Beacco & Sons of Stockbridge, for rock and earth excavation on Auto Route 41 for a distance of about 300 feet. The proposal amounted to \$3,130.00. Work completed November 10, 1953. Expenditure during fiscal year \$3,017.50.



HINGHAM-WEYMOUTH

September 8, 1953, contract made with Costantino Bros., Inc. of Johnston, Rhode Island, for removing and installing about 2,224 feet of highway guard on Lincoln Street, Hingham and Bridge Street, Weymouth and moving a small building. The proposal amounted to \$8,012.00. Work completed November 30, 1953. Expenditure during fiscal year \$7,920.70.

CHESHIRE

September 15, 1953, contract made with T. J. Harvey & Son, Inc. of Adams, for relocating a part of the channel of the Hoosic River together with the extension of a certain Brook. The proposal amounted to \$4,252.00. Work completed November 24, 1953. Expenditure during fiscal year \$3,829.52.

WESTFIELD

September 15, 1953, contract made with Argeros and Company of Bethlehem, Pennsylvania, for cleaning and painting Great River (Elm Street) Bridge over the Westfield River. The proposal amounted to \$7,200.00. Work completed June 3, 1954. Expenditure during fiscal year \$6,430.00.

ROCKPORT

September 15, 1953, contract made with J. J. Donovan Construction Co. of Lynn, for installing a drainage system on Main Street. The proposal amounted to \$8,802.50. Work completed November 21, 1953. Expenditure during fiscal year \$9,477.92.

FALL RIVER-SOMERSET

September 15, 1953, contract made with Joseph G. Gazzola, Inc. of Boston, for cleaning and painting Slade's Ferry Drawbridge. The proposal amounted to \$9,300.00. This work is now in progress.

AGAWAM

September 15, 1953, contract made with The Henley Lundgren Company of Shrewsbury, for constructing about 2,358 feet of divided State highway including a traffic circle and ramps connecting thereto for relocation of Auto Route 5; the surface consisting of bituminous concrete; constructing southerly pier and abutment of proposed bridge over Westfield River, two bridges at the traffic circle and a bridge over River Road. The proposal amounted to \$1,334,161.50. This work is now in progress.

TRURO

September 15, 1953, contract made with Frederick V. Lawrence, Inc. of Falmouth, for reconstructing about 3,700 feet of highway on South Highland Road; the surface consisting of bituminous road-mix. The proposal amounted to \$18,226.75. Work completed June 22, 1954. Expenditure during fiscal year \$18,726.35.

CAMBRIDGE

September 22, 1953, contract made with The Hudson Maintenance Corp. of New York City, for cleaning and painting Commercial Avenue Drawbridge over Lechmere Canal. The proposal amounted to \$2,425.00. Work completed December 11, 1953. Expenditure during fiscal year \$2,041.00.

AMESBURY

September 22, 1953, contract made with Frederick W. Byron of Dedham, for removing and replacing existing concrete T-beam deck with steel stringer spans with concrete deck for bridge on Macy Street Extension over the Powow River. The proposal amounted to \$49,326.00. This work is now in progress.

BEVERLY

September 22, 1953, contract made with Gil Wyner Co., Inc. of Malden, for reconstructing about 9,270 feet of highway shoulders on the Northern Circumferential Highway with bituminous concrete. The proposal amounted to \$31,820.00. Work completed November 15, 1953. Expenditure during fiscal year \$29,768.05.

MENDON

September 29, 1953, contract made with Municipal Signal & Supply Company of Boston, for furnishing and installing traffic control signals at the intersection of Route 140 and Hartford Avenue. The proposal amounted to \$998.00. Work completed November 9, 1953. Expenditure during fiscal year \$998.00.

BEDFORD

September 29, 1953, contract made with George Brox, Inc. of Hudson, for constructing about 2,600 feet of State highway on the Middlesex Pike and Old Billerica Road Relocations including a three span steel stringer bridge with concrete deck; the surface consisting of bituminous concrete. The proposal amounted to \$477,694.25. This work is now in progress.

GLOUCESTER

October 6, 1953, contract made with Corey's Steeplejacks of Lowell, for renewing gears, making repairs and alterations to the machinery of the Blynman Bridge. The proposal amounted to \$31,546. Work completed May 14, 1954. Expenditure during fiscal year \$32,594.10.

AGAWAM

October 6, 1953, contract made with Harris Structural Steel Co., Inc. of New York City, for constructing the superstructure for a bridge over the Westfield River. The proposal amounted to \$1,449,500.00. This work is now in progress.

BURLINGTON-WOBURN-LEXINGTON

October 13, 1953, contract made with Louis Recine of Newton, for installing a drainage system on Cambridge and Lowell Streets. The proposal amounted to \$42,697.15. Work completed June 1, 1954. Expenditure during fiscal year \$45,103.62.

HOLYOKE-SOUTH HADLEY

October 13, 1953, contract made with Argeros and Company of Bethlehem, Pennsylvania, for cleaning and painting Falls Bridge over the Connecticut River. The proposal amounted to \$24,825.00. This work is now in progress.

WESTFIELD

October 13, 1953, contract made with Warner Bros. Inc. of Sunderland, for installing a drainage system on Route 20. The proposal amounted to \$18,089.95. Work completed April 30, 1954. Expenditure during fiscal year \$16,564.69.



FOXBOROUGH

October 13, 1953, contract made with Anderson and Staples of Norton, for constructing brick-faced block building to house two-way radio transmitter on Route 140. The proposal amounted to \$2,750.00. Work completed December 28, 1953. Expenditure during fiscal year \$2,750.00.

HARWICH

October 19, 1953, contract made with Marinucci Bros. & Co. Inc. of Dorchester, for constructing an eight-span timber-pile bent bridge with concrete deck over Herring River. The proposal amounted to \$166,568.50. This work is now in progress.

BOSTON

October 19, 1953, contract made with J. Gavigan Co. of Canton, for constructing drainage facilities on and near Moore Street. The proposal amounted to \$2,873.00. Work completed November 16, 1953. Expenditure during fiscal year \$2,954.90.

DANVERS-MIDDLETON

October 19, 1953, contract made with W. W. Wyman, Inc. and Anthony Simeone & Son, Inc. of Medford, for constructing a single-span steel-stringer bridge over Ipswich River and roadway approaches thereto on Andover and South Main Streets; the approaches being surfaced with bituminous concrete. The proposal amounted to \$94,502.53. This work is now in progress.

YARMOUTH

October 19, 1953, contract made with Jones Construction Company, Inc. of Barnstable, for furnishing and installing drainage facilities on North Road and Mill Street. The proposal amounted to \$14,410.25. Work completed April 30, 1954. Expenditure during fiscal year \$14,691.01.

GREENFIELD-SHELBURNE-BUCKLAND-CHARLEMONT

October 19, 1953, contract made with Bradford Tree Expert Co. of Haverhill, for trimming and removing trees and brush from roadsides of Auto Route 2. The proposal amounted to \$10,334.00. Work completed January 20, 1954. Expenditure during fiscal year \$10,241.28.

PLAINVILLE

October 27, 1953, contract made with Patsy Cavalieri & Son of North Attleboro, for improving about 4,750 feet of highway on South Street. The proposal amounted to \$11,184.50. Work completed April 16, 1954. Expenditure during fiscal year \$11,214.00.

BERKLEY-FREETOWN

October 20, 1953, contract made with The Allard Corporation of Winchester, for roadside development and landscaping on the Boston-Fall River Expressway. The proposal amounted to \$20,475.94. This work is now in progress.

DOUGLAS

October 27, 1953, contract made with Sacco Construction Co. of Bellingham, for reconstructing about 4,500 feet of highway on Wallum Lake Road in the Douglas State Forest. The proposal amounted to \$11,803.50. Work completed May 30, 1954. Expenditure during fiscal year \$10,945.10.



HARWICH

October 27, 1953, contract made with Turner & Breivogel, Inc. of Falmouth, for constructing a State highway drainage system on Main Street. The proposal amounted to \$26,208.00. Work completed June 1, 1954. Expenditure during fiscal year \$26,378.93.

NORTHFIELD

October 27, 1953, contract made with Corey's Steeplejacks of Lowell, for cleaning and painting Bennett Meadow Bridge on Route 10 over the Connecticut River. The proposal amounted to \$6,440.00. This work is now in progress.

BEDFORD

November 3, 1953, contract made with V. Barletta Co. of Roslindale, for constructing about 8,332 feet of State highway on Burlington Road, Crosby<sup>Road</sup> and Route 3, as relocated, including the construction of three bridges with cement-concrete and stone masonry; the surface consisting of bituminous concrete. The proposal amounted to \$703,656.75. This work is now in progress.

BILLERICA

November 3, 1953, contract made with J. F. White Contracting Company of Cambridge, for constructing about 4,925 feet of State highway (two divided roadways) including the construction of a three span steel stringer bridge and approaches on Rangeway Road relocation over the Middlesex Turnpike; the surface consisting of bituminous concrete. The proposal amounted to \$307,266.50. This work is now in progress.

FLORIDA-NORTH ADAMS

November 3, 1953, contract made with Mackin Sand & Concrete Products Co. of Greenfield, for trimming and removing trees and brush from roadsides of Auto Route 2. The proposal amounted to \$14,350.00. Work completed February 10, 1954. Expenditure during fiscal year \$14,345.50.

BOSTON

November 3, 1953, contract made with Charles Callahan Co. of Brookline, for improving about 1,395 feet of the Truman Highway. The proposal amounted to \$11,463.70. Work completed April 29, 1954. Expenditure during fiscal year \$12,320.25.

BRIMFIELD

November 3, 1953, contract made with The Henley-Lundgren Company of Shrewsbury, for reconstructing about 1,600 feet of Sturbridge Road; the surface consisting of bituminous concrete. The proposal amounted to \$34,526.90. Work completed April 20, 1954. Expenditure during fiscal year \$36,287.47.

WORCESTER COUNTY

November 3, 1953, contract made with Black's Tree Service, Inc. of Boston, for removing trees and stumps, removing and resetting curb and patching sidewalks on various State highways. The proposal amounted to \$10,110.00. Work completed May 26, 1954. Expenditure during fiscal year \$9,855.05.

DENNIS-HARWICH

November 3, 1953, contract made with Fred W. Crowell of Harwichport, for constructing a drainage system on Route 28 and Upper County Road. The proposal amounted to \$6,727.50. Work completed May 14, 1954. Expenditure during fiscal year \$7,803.87.

CARVER

November 3, 1953, contract made with Forrest Construction Co. of Norwood, for constructing a three-span concrete slab bridge on creosoted wood pile bents with bituminous concrete approaches. The proposal amounted to \$35,982.50. Work completed April 22, 1954. Expenditure during fiscal year \$37,690.38.

WESTFIELD

November 3, 1953, contract made with The Allard Corporation of Winchester, for roadside development and landscaping at Veterans Memorial Bridge. The proposal amounted to \$1,926.50. Work completed May 12, 1954. Expenditure during fiscal year \$1,217.10.

NEEDHAM-WELLESLEY

November 10, 1953, contract made with M. DeMatteo Construction Co. of Quincy, for constructing about 4 miles of limited access State highway (two divided highways) on the Southern Circumferential Highway including the construction of five bridges and the alteration of two bridges; the surface consisting of bituminous concrete. The proposal amounted to \$4,826,351.75. This work is now in progress.

AGAWAM-SPRINGFIELD

November 10, 1953, contract made with Daniel O'Connell's Sons, Inc. of Holyoke, for constructing about 2,550 feet of State highway on Columbus Avenue including the completion of the South End Bridge, construction of four bridges and three retaining walls; the surface consisting of bituminous concrete. The proposal amounted to \$1,697,928.19. This work is now in progress.

FITCHBURG

November 17, 1953, contract made with DiMinico & Pallotta, Inc. of Malden, for constructing substructure for Water Street Bridge over Boston and Maine Railroad. The proposal amounted to \$36,540. Work completed April 23, 1954. Expenditure during fiscal year \$40,021.03.

CHICOPEE

November 17, 1953, contract made with Ray Mathews Nurseries of Norwood, Rhode Island, for roadside development and landscaping on Route 116. The proposal amounted to \$3,410.00. Work completed April 22, 1954. Expenditure during fiscal year \$3,390.80.

BOURNE

November 17, 1953, contract made with Turner & Breivogel, Inc. of Falmouth, for constructing about 1,765 feet of the south bound lane of the Mid-Cape Highway; the surface consisting of bituminous concrete. The proposal amounted to \$24,403.80. Work completed June 26, 1954. Expenditure during fiscal year \$19,914.61.



BROOKFIELD-WEST BROOKFIELD

November 17, 1953, contract made with Ciesla Bros. Inc. of Southbridge, for reconstructing about 2,739 feet of State highway on Route 9 including the construction of a reinforced concrete box bridge over Willow Brook; the surface consisting of bituminous concrete. The proposal amounted to \$82,800.75. This work is now in progress.

BILLERICA

November 17, 1953, contract made with Coleman Bros. Corporation of Boston, for constructing about 8,612 feet of State highway (two divided roadways) on Middlesex Pike Relocation including the construction of a deck plate girder bridges and approaches on Treble Cove Relocation; the surface consisting of bituminous concrete. The proposal amounted to \$882,251.00. This work is now in progress.

NORTH ADAMS

November 17, 1953, contract made with David M. Deans of Williamstown, for constructing about 772 feet of State highway on South Church Street including the construction of a single span reinforced concrete slab bridge over Tunnel Brook and dismantling of Bailey temporary bridge; the surface consisting of bituminous concrete. The proposal amounted to \$43,578.00. This work is now in progress.

ROCKLAND

November 25, 1953, contract made with Intrusion-Prepakt, Incorporated of Cleveland, Ohio, making repairs to retaining wall, roadway and sidewalk on Market Street. The proposal amounted to \$33,030.80. Work completed May 19, 1954. Expenditure during fiscal year \$31,353.13.

AVON

November 25, 1953, contract made with Continental Construction Corporation of Lynnfield, for installing granite curbing and grading for sidewalk on East Main Street. The proposal amounted to \$7,195. Work completed May 13, 1954. Expenditure during fiscal year \$6,843.85.

MILTON

November 25, 1953, contract made with John J. Botti of Dorchester, for installing granite curbing and preparing gravel base for bituminous concrete sidewalk on Blue Hill Avenue. The proposal amounted to \$15,786.00. Work completed June 15, 1954. Expenditure during fiscal year \$15,559.90.

BURLINGTON

November 25, 1953, contract made with Dominic G. DiPietro & Son of Bellingham, for constructing pipe culverts and drains near Route 128. The proposal amounted to \$6,923.50. Work completed April 30, 1954. Expenditure during fiscal year \$13,979.25.

ABINGTON

November 25, 1953, contract made with Municipal Signal & Supply Company of Boston, for furnishing and installing traffic control signals at the intersection of Routes 58 and 123. The proposal amounted to \$7,166.00. Work completed March 29, 1954. Expenditure during fiscal year \$7,166.00.



METHUEN

December 1, 1953, contract made with R. W. LeBaron, Inc. of Arlington, for furnishing and installing traffic control signals at Route 28 and Hampshire Street and at Jackson and East Streets. The proposal amounted to \$8,920.00. Work completed March 19, 1954. Expenditure during fiscal year \$8,920.00.

BEVERLY-SALEM

December 1, 1953, contract made with Corey Steeplejacks of Lowell, for making machinery repairs to the Drawbridge on Auto Route 1A over the Danvers River. The proposal amounted to \$6,440.00. Work completed May 8, 1954. Expenditure during fiscal year \$6,440.00.

LOWELL

December 1, 1953, contract made with Ralph Richard Company of Roslindale, for furnishing and laying water pipes in the vicinity of and on Hunt's Falls Bridge over the Merrimack River. The proposal amounted to \$170,593.00. This work is now in progress.

BRIMFIELD-CHARLTON-STURBRIDGE-OXFORD

December 1, 1953, contract made with The Henley-Lundgren Company of Shrewsbury, for surfacing about 4,900 feet of highway on Route 20 with bituminous concrete and installing drainage facilities on said Route 20 for a distance of about 4,400 feet in Oxford. The proposal amounted to \$55,628.75. Work completed May 14, 1954. Expenditure during fiscal year \$51,704.08.

FOXBOROUGH

December 8, 1953, contract made with Fantoni & Bitsoli Co., Inc. of Natick, for installing a drainage system and constructing bituminous concrete sidewalks on Central Street. The proposal amounted to \$54,042.00. This work is now in progress.

BOURNE

December 8, 1953, contract made with Turner & Breivogel, Inc. of Falmouth, for installing a drainage system and constructing foundation for sidewalk on Main Street. The proposal amounted to \$26,683.10. Work completed June 1, 1954. Expenditure during fiscal year \$21,325.90.

BILLERICA-CHELMSFORD

December 8, 1953, contract made with G. Rotondi & Sons of Melrose, for constructing about 3.451 miles of State highway on Middlesex Pike Relocation (two divided roadways) including the construction of a railroad grade crossing over the Boston and Maine Railroad, the construction of Concord Road Relocation with ramps and approaches to Farm Road and the construction of three bridges; the surface consisting of bituminous concrete. The proposal amounted to \$2,637,832.30. This work is now in progress.

ANDOVER

December 15, 1953, contract made with Depinto Excavating Co., Inc. of Newton, for constructing about 2,422 feet of State highway (two divided roadways) on South Main Street; the surface consisting of bituminous concrete. The proposal amounted to \$63,009.00. This work is now in progress.

HANCOCK-LENOX

December 15, 1953, contract made with Mountain Sand & Gravel Co., Inc. of Great Barrington, for constructing shoulders and truck turnouts on Route 20. The proposal amounted to \$39,002.00. Work completed June 30, 1954. Expenditure during fiscal year \$37,640.40.

BRAINTREE

December 15, 1953, contract made with J. J. Donovan Construction Co. of Lynn, for installing granite curbing and preparing existing sidewalks for surfacing. The proposal amounted to \$23,560.50. Work completed May 25, 1954. Expenditure during fiscal year \$24,585.20.

WORCESTER

December 15, 1953, contract made with Farina Brothers Co. of Newton, for railroad grade crossing elimination at Lincoln Square. The proposal amounted to \$3,168,517.90. This work is now in progress.

BROCKTON-WEST BRIDGEWATER

December 15, 1953, contract made with J. F. White Contracting Company of Cambridge, for constructing about 4 miles of State highway on the Amvets Memorial Highway including the construction of five bridges and two culverts; the surface consisting of bituminous concrete. The proposal amounted to \$3,819,518.70. This work is now in progress.

BARNSTABLE-YARMOUTH

December 22, 1953, contract made with S. and M. Construction Company of Providence, Rhode Island, for constructing about 5 miles of State highway on new location for the Mid-Cape Highway including the construction of three bridges; the surface consisting of bituminous concrete. The proposal amounted to \$1,171,503.13. This work is now in progress.

HANCOCK

December 22, 1953, contract made with Petricca Construction Company of Pittsfield, for reconstructing about 7,488 feet of State highway on Williamstown Road; the surface consisting of bituminous concrete. The proposal amounted to \$134,341.00. This work is now in progress.

MONTAGUE

December 22, 1953, contract made with R. W. LeBaron, Inc. of Arlington, for furnishing and installing traffic control signals on Avenue "A" at Third and Seventh Streets. The proposal amounted to \$5,062.00. Work completed June 1, 1954. Expenditure during fiscal year \$5,062.00.

WINCHESTER

January 5, 1954, contract made with Berke Moore Company, Inc. of Boston, for constructing a temporary steel-pile and stringer two-track railroad trestle. The proposal amounted to \$327,500.00. This work is now in progress.

WEST BOYLSTON

January 5, 1954, contract made with Suburban Excavators, Inc. of Wakefield, for installing a drainage system along Auto Route 110.



The proposal amounted to \$7,121.60. Work completed March 25, 1954. Expenditure during fiscal year \$6,946.03.

WARE

January 5, 1954, contract made with Warner Bros. Inc. of Sunderland, for constructing about 7,566 feet of State highway on Belchertown Road; the surface consisting of bituminous concrete. The proposal amounted to \$182,913.50. Work is now in progress.

GROVELAND-HAVERHILL

January 5, 1954, contract made with Corey Steeplejacks, Incorporated of Lowell, for electrification of draw on bridge over the Merrimac River. The proposal amounted to \$5,840.00. This work is now in progress.

NANTUCKET

January 5, 1954, contract made with Turner & Breivogel, Inc. of Falmouth, for reconstructing about 18,689 feet of highway on Hummock Pond Road. The proposal amounted to \$109,331.25. This work is now in progress.

NANTUCKET

January 5, 1954, contract made with Town of Nantucket, for maintenance of the State highway. The proposal amounted to \$2,000. Work completed June 22, 1954. Expenditure during fiscal year \$718.25.

SOUTHERIDGE

January 12, 1954, contract made with E. T. O'Neill & Son Construction Corporation of Holyoke, for constructing a single span steel stringer bridge with concrete deck and bituminous concrete approaches. The proposal amounted to \$80,624.10. This work is now in progress.

BRISTOL-NORFOLK COUNTIES

January 19, 1954, contract made with Fred Ralston & Co., Inc. of Allston, for removing trees and stumps on State highways. The proposal amounted to \$7,490.00. Work completed April 7, 1954. Expenditure during fiscal year \$7,330.00.

EGREMONT-SHEFFIELD

January 19, 1954, contract made with Pittsfield Tree Expert Company, for removing trees and stumps on State highways. The proposal amounted to \$8,470.00. Work completed April 6, 1954. Expenditure during fiscal year \$8,470.00.

ESSEX COUNTY

January 19, 1954, contract made with Fred Ralston & Co., Inc. of Allston, for removing trees on State highways. The proposal amounted to \$3,390.00. Work completed March 12, 1954. Expenditure during fiscal year \$3,390.00.

RICHMOND-WEST STOCKBRIDGE-GREAT BARRINGTON-PITTSFIELD

January 19, 1954, contract made with Pittsfield Tree Expert Company of Pittsfield, for removing trees and stumps on State highways. The proposal amounted to \$8,020.00. Work completed May 19, 1954. Expenditure during fiscal year \$8,020.00.



PLYMOUTH COUNTY

January 19, 1954, contract made with Hartney Tree Surgeons, Inc. of Dedham, for removing trees on State highways. The proposal amounted to \$4,889.26. Work completed April 30, 1954. Expenditure during fiscal year \$5,059.74.

BARNSTABLE COUNTY

January 19, 1954, contract made with Huntley Tree Service of Hanover, for removing trees on State highways. The proposal amounted to \$4,140.00. Work completed March 6, 1954. Expenditure during fiscal year \$4,290.00.

WORCESTER

January 19, 1954, contract made with Charles Capone Construction Co., Inc. of Roslindale, for constructing a section of State highway for the Western Artery including the reconstruction of certain streets, construction of extensions and connections between certain streets, demolition of buildings, construction of dam with outlet works and the installation of a battery of three reinforced concrete pipe culverts on Lancaster Street. The proposal amounted to \$505,479.85. This work is now in progress.

LEOMINSTER

January 19, 1954, contract made with Rome Construction Company of Holden, for reconstructing about 205 feet of highway on Main and North Main Streets; the surface consisting of bituminous concrete. The proposal amounted to \$13,349.00. This work is now in progress.

MANCHESTER

January 19, 1954, contract made with Eastern Tree & Landscape Corporation of Dedham, for setting granite bounds at various locations along the State highway on Auto Route 127. The proposal amounted to \$3,681.50. Work completed May 8, 1954. Expenditure during fiscal year \$3,645.50.

AGAWAM-WEST SPRINGFIELD

January 26, 1954, contract made with Berke Moore Company, Inc. of Boston, for constructing about 5,615 feet of State highway for Relocation of Route 5 including the construction of the northerly pier and abutment of a bridge, construction of two bridges at the Memorial Bridge Traffic Circle, construction of bridge over road to sewerage disposal plant and alterations of the westerly abutment of said Memorial Bridge; the surface consisting of bituminous concrete. The proposal amounted to \$2,160,537.50. This work is now in progress.

HAMPDEN AND WORCESTER COUNTIES

January 26, 1954, contract made with Brewer Tree Expert Co. of Worcester, for tree removal on State highways. The proposal amounted to \$10,706.00. Work completed June 9, 1954. Expenditure during fiscal year \$10,706.00.

MARION

January 26, 1954, contract made with Municipal Signal & Supply Company of Boston, for furnishing and installing traffic control signals at the intersection of Routes 6 and 105. The proposal amounted to \$6,673.00. Work completed April 14, 1954. Expenditure during fiscal year \$6,673.00.

WORCESTER COUNTY

January 26, 1954, contract made with Harvard Tree Service of Harvard, for tree removal on State highways. The proposal amounted to \$10,981.00. This work is now in progress.

WARREN

February 2, 1954, contract made with Frank J. Shields, Incorporated of Southbridge, for reconstructing about 12,100 feet of highway on Boston Road including the removal of the superstructure of a bridge over Cheney Brook, construction of a cement-concrete addition to the substructure thereof and a cement-concrete slab superstructure to replace and extend that removed; the surface consisting of bituminous concrete. The proposal amounted to \$337,448.25. This work is now in progress.

TRURO

February 2, 1954, contract made with Transit Seeding, Inc. of Hyde Park, for landscaping along Route 6. The proposal amounted to \$2,620.00. Work completed April 27, 1954. Expenditure during fiscal year \$2,609.00.

MASHPEE

February 2, 1954, contract made with Robert M. Owens of Hyannis, for landscaping at the Mashpee Traffic Circle. The proposal amounted to \$2,606.50. Work completed May 17, 1954. Expenditure during fiscal year \$2,623.25.

AYER

February 2, 1954, contract made with Littlefield-Wyman Nurseries of Abington, for landscaping at the Traffic Circle on Route 2A. The proposal amounted to \$2,331.00. Work completed April 26, 1954. Expenditure during fiscal year \$2,329.00.

GLOUCESTER

February 2, 1954, contract made with Corliss Bros. Inc. of Gloucester, for landscaping at the Washington Street Rotary. The proposal amounted to \$8,691.79. This work is now in progress.

WORCESTER COUNTY

February 9, 1954, contract made with Bigelow Nurseries of Northborough, for furnishing and planting trees. The proposal amounted to \$3,981.33. Work completed May 1, 1954. Expenditure during fiscal year \$4,074.33.

FITCHBURG-LEOMINSTER-WESTMINSTER

February 9, 1954, contract made with G. Bonazzoli & Sons of Bolton, for removing approaches and crossovers and constructing stock fence on Auto Route 2. The proposal amounted to \$41,625.00. Work completed June 30, 1954. Expenditure during fiscal year \$36,109.20.

FRANKLIN, HAMPSHIRE AND HAMPDEN COUNTIES

February 9, 1954, contract made with Keating's Landscape Foresters of Willimansett, for tree removal on State highways. The proposal amounted to \$7,110.00. Work completed June 30, 1954. Expenditure during fiscal year \$6,873.00.



WAREHAM

February 9, 1954, contract made with Cape Shore Homes, Inc. of Wareham, for constructing a State highway drainage system on Tremont Road. The proposal amounted to \$6,281.50. Work completed April 30, 1954. Expenditure during fiscal year \$4,942.48.

LAKEVILLE

February 9, 1954, contract made with Gracia Bros. of Fairhaven, for constructing a drainage system on Main and Vaughn Streets. The proposal amounted to \$8,032.20. Work completed May 7, 1954. Expenditure during fiscal year \$7,574.91.

SALISBURY

February 9, 1954, contract made with A. V. Taurasi Co., Inc. of Somerville, for constructing about 7,343 feet of limited access State highway including work on the Salisbury Beach Reservation; the surface consisting of bituminous macadam. The proposal amounted to \$477,090.45. This work is now in progress.

BUCKLAND-CHARLEMONT

February 16, 1954, contract made with The Brunalli Construction Company of Southington, Connecticut, for constructing about 5,190 feet of State highway for Route 2 Relocation including the construction of a 3-span steel deck plate girder bridge over the Deerfield River and a steel stringer extension to the existing Ashfield Road Bridge; the surface consisting of bituminous concrete. The proposal amounted to \$1,319,328.00. This work is now in progress.

BUCKLAND-SHELBURNE

February 23, 1954, contract made with Bethlehem Steel Company of Bethlehem, Pennsylvania, for furnishing, placing and painting the structural steel for bridge over Deerfield River and Main Street on Relocation of Route 2. The proposal amounted to \$315,000.00. This work is now in progress.

BUCKLAND-SHELBURNE

February 23, 1954, contract made with Warner Bros. Inc. of Sunderland, for constructing substructure of bridge over Deerfield River and Main Street on Route 2 Relocation. The proposal amounted to \$186,292.50. This work is now in progress.

LEE

February 23, 1954, contract made with Dane Construction Corp. of Somerville, for repairing bridge on Auto Route 20 over the Housatonic River. The proposal amounted to \$12,341.60. This work is now in progress.

TRURO

February 23, 1954, contract made with John J. Botti of Dorchester, for constructing State highway drainage system on Auto Route 6. The proposal amounted to \$4,655.00. Work completed April 7, 1954. Expenditure during fiscal year \$5,867.81.

MARTHA'S VINEYARD

March 2, 1954, contract made with F. A. Bartlett Tree Expert Company of Cambridge, for trimming trees on State highways. The proposal amounted to \$4,957.00. Work completed May 14, 1954. Expenditure during fiscal year \$4,932.85.



DENNIS-YARMOUTH

March 2, 1954, contract made with Campanella & Cardì Construction Company of Hillsgrove, Rhode Island, for constructing on new location about 4.6 miles of State highway including the construction of three bridges; the surface consisting of bituminous concrete. The proposal amounted to \$1,471,735.00. This work is now in progress.

GRAFTON

March 2, 1954, contract made with Sacco Construction Co. of Bellingham, for reconstructing about 2,950 feet of State highway on Auto Route 122; the surface consisting of bituminous concrete. The proposal amounted to \$72,012.50. This work is now in progress.

MONTAGUE

March 2, 1954, contract made with Warner Bros. Inc. of Sunderland, for reconstructing a bridge and approaches thereto over Lower Canal on Fifth Street. The proposal amounted to \$80,720.70. This work is now in progress.

ORLEANS

March 2, 1954, contract made with Marinucci Bros. & Co. Inc. of Dorchester, for constructing a three-span bridge with reinforced concrete slabs and treated timber piles and approaches thereto on Auto Route 28 over Salt Marsh Inlet. The proposal amounted to \$59,796.00. Work completed June 30, 1954. Expenditure during fiscal year \$55,989.20.

MILTON

March 2, 1954, contract made with Marinucci Bros. & Co. Inc. of Dorchester, for constructing about 6,900 feet of limited access State highway (two divided roadways) for Southeast Expressway including the construction of six bridges; the surface consisting of bituminous concrete. The proposal amounted to \$2,655,847.50. This work is now in progress.

PLYMPTON

March 2, 1954, contract made with L & T Construction Co. Inc. of Melrose, for constructing a single-span reinforced concrete rigid-frame bridge and approaches thereto on Main Street over Wenatuxet River. The proposal amounted to \$13,354.00. This work is now in progress.

ABINGTON

March 9, 1954, contract made with Suburban Excavators, Inc. of Wakefield, for widening a section of Bedford Street and laying gravel foundation for proposed sidewalk. The proposal amounted to \$12,078.50. Work completed May 15, 1954. Expenditure during fiscal year \$11,519.63.

TAUNTON

March 23, 1954, contract made with Martin J. Kelly Co., Inc. of Jamaica Plain, for constructing a two-span steel stringer bridge and bituminous concrete approaches thereto over Three Mile River on Winthrop Street. The proposal amounted to \$117,086.70. This work is now in progress.

HANOVER

March 23, 1954, contract made with Warren Brothers Roads Company of Cambridge, for paving with bituminous concrete Maintenance Depot Area at Washington and Mill Streets. The proposal amounted to \$20,031.00. This work is now in progress.

HUBBARDSTON

March 23, 1954, contract made with Hill Construction Company of Millbury, for reconstructing about 5,200 feet of Worcester Road including a single-span steel-stringer bridge over the West Branch of the Ware River; the surface consisting of bituminous concrete. The proposal amounted to \$249,542.00. This work is now in progress.

FALL RIVER-SOMERSET

March 23, 1954, contract made with Ray Company of East Providence, Rhode Island, for replacing traffic-gate machinery on Brightman Street Bridge. The proposal amounted to \$9,800.00. This work is now in progress.

CHESTERFIELD

March 23, 1954, contract made with Mackin Sand & Concrete Products Co. of Greenfield, for reconstructing about 650 feet of State highway including the construction of a new steel stringer superstructure and facing of existing abutments and wingwalls of the bridge on Roberts Meadow Road over Dead Branch Stream; the surface consisting of bituminous macadam. The proposal amounted to \$24,177.30. This work is now in progress.

DEDHAM-WESTWOOD-NEEDHAM

March 30, 1954, contract made with A. V. Taurasi Co., Inc. of Somerville, for constructing about 16,569 feet of limited access State highway (two separate highways) with bituminous concrete including the alteration of an existing bridge carrying old Route 128 over the Charles River and the construction of two steel girder bridges and four steel stringer bridges. The proposal amounted to \$4,499,538.33. This work is now in progress.

SOUTHBRIDGE

March 30, 1954, contract made with G. Bonazzoli & Sons of Bolton, for extending a bridge at about Station 85+00 and reconstructing the superstructure of bridge at about Station 86+50 and constructing approaches thereto <sup>on Sandersdale Road</sup>. The proposal amounted to \$37,342. This work is now in progress.

CHARLEMONT

March 30, 1954, contract made with Daniel O'Connell's Sons, Inc. of Holyoke, for constructing about 4,461 feet of State highway including a three-span steel girder bridge on Route 2 over the Deerfield River; the surface consisting of bituminous treated gravel. The proposal amounted to \$696,837.53. This work is now in progress.

DISTRICT 1

March 30, 1954, contract made with John H. Flynn of Pittsfield, for spraying trees and other vegetation. The proposal amounted to \$3,253.50. This work is now in progress.



DISTRICT 2

March 30, 1954, contract made with Pioneer Valley Mist Spray Service of Ashfield, for spraying trees and other vegetation. The proposal amounted to \$3,105.00. This work is now in progress.

DISTRICT 3

March 30, 1954, contract made with Massachusetts Tree Expert Company of Ashland, for spraying trees and other vegetation. The proposal amounted to \$4,170.00. This work is now in progress.

DISTRICT 4

March 30, 1954, contract made with Fred Ralston & Co., Inc. of Allston, for spraying trees and other vegetation. The proposal amounted to \$3,810.00. This work is now in progress.

DISTRICT 5

March 30, 1954, contract made with Fred Ralston & Co., Inc. of Allston, for spraying trees and other vegetation. The proposal amounted to \$2,921.00. This work is now in progress.

DISTRICT 6

March 30, 1954, contract made with Fred Ralston & Co., Inc. of Allston, for spraying trees and other vegetation. The proposal amounted to \$3,810.00. This work is now in progress.

DISTRICT 7

March 30, 1954, contract made with Hixon Tree Company of Segreganset, for spraying trees and other vegetation. The proposal amounted to \$2,510.00. This work is now in progress.

DISTRICTS 1 TO 7

March 30, 1954, contract made with E. W. Wiggins Airways, Inc. of Norwood, for aerial spraying of trees and other vegetation. The proposal amounted to \$12,280.00. This work is now in progress.

HANOVER

April 6, 1954, contract made with Dedham Sheet Metal Works Inc. of Dedham, for furnishing and installing exhaust fans in Department Foreman's Garage. The proposal amounted to \$684.00. Work completed May 20, 1954. Expenditure during fiscal year \$684.00.

FITCHBURG

April 6, 1954, contract made with G. Bonazzoli & Sons of Bolton, for replacing the superstructure of a bridge on Water Street over Broad Street and the Boston and Maine Railroad with bituminous concrete approaches thereto. The proposal amounted to \$175,569.03. This work is now in progress.

ROWLEY

April 6, 1954, contract made with Dedham Sheet Metal Works Inc. of Dedham, for furnishing and installing exhaust fans in Department Foreman's Garage. The proposal amounted to \$684.00. Work completed April 21, 1954. Expenditure during fiscal year \$684.00.

ORANGE

April 6, 1954, contract made with A. Belanger & Sons, Inc. of Cambridge, for furnishing and installing exhaust fans in Department Foreman's Garage. The proposal amounted to \$1,100.00. Work completed May 25, 1954. Expenditure during fiscal year \$1,100.00.

DALTON

April 6, 1954, contract made with A. Belanger & Sons, Inc. of Cambridge, for furnishing and installing exhaust fans in Department Foreman's Garage. The proposal amounted to \$1,180.00. Work completed May 27, 1954. Expenditure during fiscal year \$1,180.00.

WRENTHAM

April 6, 1954, contract made with Dedham Sheet Metal Works Inc. of Dedham, for furnishing and installing exhaust fans in Department Foreman's Garage. The proposal amounted to \$684.00. Work completed May 18, 1954. Expenditure during fiscal year \$684.

FAIRHAVEN

April 6, 1954, contract made with Campanella & Cardi Construction Company of Hills Grove, Rhode Island, for reconstructing about 10,224 feet of State highway on Washington Street; the surface consisting of bituminous concrete. The proposal amounted to \$314,238.75. This work is now in progress.

BROOKTON

April 6, 1954, contract made with D. V. Frione & Co., Inc. of New Haven, Connecticut, for constructing about 17,751 feet of State highway on Amvets Memorial Highway and Auto Route 27 including the construction of three bridges; the surface consisting of bituminous treated gravel and bituminous concrete. The proposal amounted to \$2,398,842.25. This work is now in progress.

WALPOLE

April 13, 1954, contract made with Patsy Cavalieri & Son of North Attleborough, for constructing a drainage system on Main Street. The proposal amounted to \$9,548.50. Work completed May 13, 1954. Expenditure during fiscal year \$9,709.07.

MILLBURY-SUTTON

April 20, 1954, contract made with Duggan Construction Co. of Whitinsville, for mowing grass along Route 146. The proposal amounted to \$5,325.00. This work is now in progress.

SUTTON-UXBRIDGE

April 20, 1954, contract made with Duggan Construction Co. of Whitinsville, for mowing grass along Route 146. The proposal amounted to \$5,450.00. This work is now in progress.

MENDON-UXBRIDGE

April 20, 1954, contract made with Duggan Construction Co. of Whitinsville, for mowing grass along Route 16. The proposal amounted to \$1,350.00. This work is now in progress.

FITCHBURG-WESTMINSTER

April 20, 1954, contract made with Wogan Lawn Service of Manchester, Inc., for mowing grass along Route 2. The proposal amounted to \$8,181.00. This work is now in progress.

LEOMINSTER

April 20, 1954, contract made with Transit Seeding, Inc. of Hyde Park, for mowing grass along Route 2. The proposal amounted to \$3,792.50. This work is now in progress.



HARVARD-LANCASTER

April 20, 1954, contract made with Transit Seeding, Inc. of Hyde Park, for mowing grass along Route 2. The proposal amounted to \$5,692.00. This work is now in progress.

BARRE-PETERSHAM

April 20, 1954, contract made with Charles W. Uracius of Barre, for mowing grass along Routes 32 and 122. The proposal amounted to \$2,922.00. This work is now in progress.

ATHOL-PETERSHAM

April 20, 1954, contract made with Charles W. Uracius of Barre, for mowing grass along Routes 32 and 122. The proposal amounted to \$4,197.00. This work is now in progress.

STERLING-WEST BOYLSTON

April 20, 1954, contract made with John C. Madigan, Jr. of Harvard, for mowing grass along Route 12. The proposal amounted to \$9,015.00. This work is now in progress.

STERLING

April 20, 1954, contract made with John C. Madigan, Jr. of Harvard, for mowing grass along Route 12. The proposal amounted to \$9,891.00. This work is now in progress.

BRIMFIELD

April 20, 1954, contract made with Charles W. Uracius of Barre, for mowing grass along Route 20. The proposal amounted to \$3,885.00. This work is now in progress.

CONCORD-ACTON-BOXBORO-LITTLETON-HARVARD

April 20, 1954, contract made with Robert E. Wilson of Newton, for mowing grass along Route 2. The proposal amounted to \$7,996.00. This work is now in progress.

NEEDHAM-WELLESLEY-NEWTON-WESTON-WALTHAM

April 20, 1954, contract made with Little-Eldridge Co., Inc. of Natick, for mowing grass along Route 128. The proposal amounted to \$3,035.00. This work is now in progress.

LEXINGTON-WALTHAM

April 20, 1954, contract made with Little-Eldridge Co., Inc. of Natick, for mowing grass along Route 128. The proposal amounted to \$3,390.00. This work is now in progress.

LEXINGTON-BURLINGTON

April 20, 1954, contract made with Transit Seeding, Inc. of Hyde Park, for mowing grass along Route 128. The proposal amounted to \$4,481.00. This work is now in progress.

BURLINGTON-WOBURN-READING

April 20, 1954, contract made with Transit Seeding, Inc. of Hyde Park, for mowing grass along Route 128. The proposal amounted to \$4,022.00. This work is now in progress.

READING-WAKEFIELD-LYNNFIELD

April 20, 1954, contract made with William J. Hartnett of Dorchester, for mowing grass along Route 128. The proposal amounted to \$5,300.00. This work is now in progress.

LYNNFIELD-DANVERS-BEVERLY

April 20, 1954, contract made with John R. Hall of Salisbury, for mowing grass along Route 128. The proposal amounted to \$2,100. This work was discontinued and was completed by Department.

GLOUCESTER

April 20, 1954, contract made with John R. Hall of Salisbury, for mowing grass along Route 128. The proposal amounted to \$2,099.90. This work was discontinued and completed by Department.

LYNNFIELD-PEABODY

April 20, 1954, contract made with John R. Hall of Salisbury, for mowing grass along Route 1. The proposal amounted to \$2,099.95. This work was discontinued and completed by Department.

MIDDLETON-DANVERS-TOPSFIELD-BOXFORD

April 20, 1954, contract made with John R. Hall of Salisbury, for mowing grass along New Route 1. The proposal amounted to \$2,305.00. This work was discontinued and completed by Department.

MIDDLETON-NORTH ANDOVER

April 20, 1954, contract made with John R. Hall of Salisbury, for mowing grass along Route 114. The proposal amounted to \$2,160.05. This work was discontinued and completed by Department.

FALL RIVER-FREETOWN-BERKLEY

April 20, 1954, contract made with Lind & Sons of Randolph, for mowing grass along Amvets Memorial Highway. The proposal amounted to \$14,400.00. This work is now in progress.

TAUNTON-RAYNHAM-WEST BRIDGEWATER-BRIDGEWATER

April 20, 1954, contract made with Lind & Sons of Randolph, for mowing grass along Amvets Memorial Highway. The proposal amounted to \$14,400.00. This work is now in progress.

DIGHTON-SOMERSET

April 20, 1954, contract made with J. F. Simmons and Sons of Freetown, for mowing grass along Route 138. The proposal amounted to \$3,300.00. This work is now in progress.

BOSTON-MILTON

April 20, 1954, contract made with Transit Seeding, Inc. of Hyde Park, for mowing grass along Truman Highway. The proposal amounted to \$1,669.00. This work is now in progress.

DARTMOUTH-WESTPORT

April 20, 1954, contract made with Charles H. Dean of Westport, for mowing grass along Route 6. The proposal amounted to \$5,100.00. This work is now in progress.



REHOBOTH-SEEKONK-SOMERSET-SWANSEA

April 20, 1954, contract made with Lind & Sons of Randolph, for mowing grass along Route 6. The proposal amounted to \$3,950. This work is now in progress.

DEDHAM-BOSTON

April 20, 1954, contract made with Transit Seeding, Inc. of Hyde Park, for mowing grass along Route 1. The proposal amounted to \$2,358.75. This work is now in progress.

DIGHTON-SEEKONK-REHOBOTH-TAUNTON

April 20, 1954, contract made with Harry F. Salley of Norton, for mowing grass along Route 44. The proposal amounted to \$3,440. This work is now in progress.

RAYNHAM-TAUNTON

April 20, 1954, contract made with Harry F. Salley of Norton, for mowing grass along Route 44. The proposal amounted to \$1,475. This work is now in progress.

BERKLEY-TAUNTON-NORTON

April 20, 1954, contract made with Harry F. Salley of Norton, for mowing grass along Route 140. The proposal amounted to \$2,290. This work is now in progress.

KINGSTON-PLYMOUTH

April 20, 1954, contract made with Lind & Sons of Randolph, for mowing grass along Plymouth-Kingston By-Pass. The proposal amounted to \$11,775.00. This work is now in progress.

BARNSTABLE-BROCKTON-HULL-YARMOUTH

April 27, 1954, contract made with Municipal Signal & Supply Company of Boston, for furnishing and installing traffic control signals at five sites. The proposal amounted to \$20,961.00. This work is now in progress.

CHARLTON

May 4, 1954, contract made with Worcester Sand and Gravel Company, Incorporated, for resurfacing and widening about 12,200 feet of State highway on Route 20; the surface consisting of bituminous concrete. The proposal amounted to \$265,254.50. This work is now in progress.

DISTRICT 1

May 4, 1954, contract made with R. M. Gibbs Tree Service of Pittsfield, for spraying poison ivy and other obnoxious weeds. The proposal amounted to \$1,320.00. This work is now in progress.

DISTRICT 2

May 4, 1954, contract made with Franklin Tree Expert Co. of Greenfield, for spraying poison ivy and other obnoxious weeds. The proposal amounted to \$1,296.00. This work is now in progress.

DISTRICT 3

May 4, 1954, contract made with Massachusetts Tree Expert Company of Ashland, for spraying poison ivy and other obnoxious weeds. The proposal amounted to \$1,980.00. This work is now in progress.

DISTRICT 4

May 4, 1954, contract made with General Tree Service Co. of Medford, for spraying poison ivy and other obnoxious weeds. The proposal amounted to \$1,180.00. This work is now in progress.

DISTRICT 5

May 4, 1954, contract made with Locale Tree Company of Beverly, for spraying poison ivy and other obnoxious weeds. The proposal amounted to \$1,104.00. This work is now in progress.

DISTRICT 6

May 4, 1954, contract made with General Tree Service Co. of Medford, for spraying poison ivy and other obnoxious weeds. The proposal amounted to \$1,770.00. This work is now in progress.

DISTRICT 7

May 4, 1954, contract made with Hixon Tree Company of Dighton, for spraying poison ivy and other obnoxious weeds. The proposal amounted to \$1,960.00. This work is now in progress.

BERKLEY

May 4, 1954, contract made with Callan Construction Corporation of Bristol, Rhode Island, for reconstructing about 6,235 feet of State highway on Amvets Memorial Highway, Padelford, Jerome and Seymour Streets; the surface consisting of bituminous concrete. The proposal amounted to \$121,090.00. This work is now in progress.

HOLLAND-STURBRIDGE

May 11, 1954, contract made with Duggan Construction Co. of Whitinsville, for mowing grass along Route 15. The proposal amounted to \$21,245.00. This work is now in progress.

BELCHERTOWN

May 11, 1954, contract made with Mackin Sand & Concrete Products Co. of Greenfield, for reconstructing about 4,950 feet of State highway on North Main Street; the surface consisting of bituminous concrete. The proposal amounted to \$104,394.35. This work is now in progress.

PLYMOUTH

May 11, 1954, contract made with Campanella & Cardi Construction Company of Hills Grove, Rhode Island, for constructing two truck turn-outs on Auto Route 3. The proposal amounted to \$7,475.00. This work completed June 16, 1954. Expenditure during fiscal year \$6,134.75.

LAWRENCE

May 11, 1954, contract made with The Martin Way of Lowell, for cleaning and painting steel of Falls Bridge on Route 28 over the Merrimac River. The proposal amounted to \$2,344.00. Work completed June 14, 1954. Expenditure during fiscal year \$2,044.00.

EASTHAMPTON-GREENFIELD

May 11, 1954, contract made with R.W. LeBaron, Inc. of Arlington, for furnishing and installing traffic control signals on Routes 10 and 141 in Easthampton and Routes 5 and 10 in Greenfield. The proposal amounted to \$9,077.00. This work is now in progress.



REVERE

May 11, 1954, contract made with Eugene R. Eisenberg, Inc. of Boston, for constructing pedestrian overpass with ramp approaches at Cove Street. The proposal amounted to \$45,000.00. This work is now in progress.

CHICOPEE

May 11, 1954, contract made with E. T. O'Neill & Son Construction Corporation of Holyoke, for reconstructing about 754 feet of highway on Chicopee and Prospect Streets including the replacement of the deck on a portion of a bridge on Prospect Street over Willimansett Brook and extending said bridge; the surface consisting of bituminous concrete. The proposal amounted to \$30,715.00. This work is now in progress.

FITCHBURG

May 18, 1954, contract made with Montuori Construction Corporation of Fitchburg, for constructing a single-span reinforced concrete beam and slab bridge over Baker Brook on Lunenburg Street and resurfacing the approaches thereto; also the removal of two existing bridge structures and the relocation of the water channel. The proposal amounted to \$55,640.10. This work is now in progress.

LEE

May 18, 1954, contract made with Mackin Sand & Concrete Products Co. of Greenfield, for constructing a steel truss bridge on Meadow Street over the Housatonic River; constructing about 1,690 feet of State highway on Route 102 including the approaches to the bridge and the relocation of a channel; the surface consisting of bituminous concrete. The proposal amounted to \$229,146.60. This work is now in progress.

WILMINGTON

May 18, 1954, contract made with Rufo Construction Company of Brighton, for installing granite curbing and gravel base for sidewalk on Main Street. The proposal amounted to \$4,481.40. This work is now in progress.

DANVERS

May 18, 1954, contract made with Anthony Simeone & Son, Inc. and Mozzicato Construction Co. of Medford, for constructing a two-span steel-stringer bridge with roadway approaches thereto at the intersection of Endicott Street and the Northern Circumferential Highway. The proposal amounted to \$329,444.00. This work is now in progress.

OXFORD

May 25, 1954, contract made with Charles Callahan Co. of Jamaica Plain, for widening and surfacing about 11,620 feet of State highway on Route 20; the surface consisting of bituminous concrete. The proposal amounted to \$200,065.90. This work is now in progress.

AGAWAM-WEST SPRINGFIELD-HOLYOKE

May 25, 1954, contract made with Chickering Contracting Co. of Belmont, for cleaning catch basins along State highways. The proposal amounted to \$2,040.15. This work is now in progress.

BELCHERTOWN-GRANBY-SOUTHAMPTON-SOUTH HADLEY-CHICOPEE-WESTFIELD-SOUTHWICK

May 25, 1954, contract made with Chickering Contracting Co. of Belmont, for cleaning catch basins along State highways. The proposal amounted to \$2,493.40. This work is now in progress.

QUINCY-HOLBROOK-MILTON

May 25, 1954, contract made with Old Colony Construction Co. of Quincy, for surface treatment of about 3.0 miles on Auto Route 37 with bitumen and crushed stone. The proposal amounted to \$8,800.25. This work is now in progress.

DIGHTON-RAYNHAM-TAUNTON

May 25, 1954, contract made with Patsy Cavalieri & Son of North Attleborough, for surface treatment of about 4.7 miles of State highway on Auto Routes 138 and 104 with bitumen and crushed stone. The proposal amounted to \$10,954.50. This work is now in progress.

BARNSTABLE

May 25, 1954, contract made with Wogan Lawn Service of Manchester, Inc. for mowing grass along Routes 6 and 132. The proposal amounted to \$9,240.00. This work is now in progress.

DEDHAM-WESTWOOD

May 25, 1954, contract made with S. and M. Construction Company of Providence, Rhode Island, for constructing about 3,962 feet of State highway for the Southern Circumferential Highway including the construction of four bridges; the surface consisting of bituminous concrete. The proposal amounted to \$1,542,673.00. This work is now in progress.

METHUEN

May 25, 1954, contract made with National Gunite Corporation of Boston, for making repairs to bridge on Auto Route 28 over Spicket River. The proposal amounted to \$2,718.50. This work is now in progress.

BECKET-CHESTER-HANCOCK-LEE-RICHMOND-PITTSFIELD

May 25, 1954, contract made with Webster & Webster Incorporated of East Hartford, Connecticut, for re-aligning and painting highway guard on Auto Routes 8, 20 and 41. The proposal amounted to \$5,430.00. This work is now in progress.

DALTON-PITTSFIELD

May 25, 1954, contract made with James A. Freaney, Inc. of Hyde Park, for cleaning catch basins along State highways. The proposal amounted to \$1,891.50. This work is now in progress.

FALMOUTH

June 1, 1954, contract made with Frederick V. Lawrence, Inc. of Falmouth, for constructing a State highway drainage system on Waquoit Road and Teaticket Path. The proposal amounted to \$9,849.50. This work is now in progress.



WRENTHAM

June 1, 1954, contract made with Charles Capone Construction Co., Inc. of Dedham, for reconstructing about 12,100 feet of State highway on East Main and North Main Streets; the surface consisting of bituminous concrete. The proposal amounted to \$350,205.25. This work is now in progress.

WATERTOWN

June 1, 1954, contract made with Martin J. Kelly Co., Inc. of Jamaica Plain, for reconstructing the superstructure of a bridge on Main Street over the tracks of the Boston and Maine Railroad together with the roadway approaches thereto. The proposal amounted to \$49,928.00. This work is now in progress.

LYNNFIELD-PEABODY

June 1, 1954, contract made with Leslie Sign System Inc. of Salem, for furnishing and installing overhead directional signs for Routes 1 and 128. The proposal amounted to \$2,625.00. This work is now in progress.

CAMBRIDGE

June 1, 1954, contract made with Roy B. Rendle & Company, Inc. of Boston, for making fender pier repairs to Commercial Avenue Drawbridge on Auto Route 1 over the Lechmere Canal. The proposal amounted to \$15,580.00. This work is now in progress.

FALL RIVER-SOMERSET-SWANSEA

June 1, 1954, contract made with John M. Cashman of Dorchester, for surface treatment of about 4.9 miles of State highways on Auto Routes 103 and 6 with bitumen and crushed stone. The proposal amounted to \$14,200.00. This work is now in progress.

SANDISFIELD

June 1, 1954, contract made with Arthur Hebert of Monterey, for repairing two bridges on Auto Route 8 over the Farmington River. The proposal amounted to \$14,130.00. This work is now in progress.

NEW ASHFORD

June 1, 1954, contract made with Petricca Construction Company of Pittsfield, for reconstructing about 7,729 feet of State highway including the widening of a bridge at about Station 76+80 and the construction or alteration of four bridges at about Station 123, Station 137+57, opposite Station 137 and opposite Station 93+58 on Williamstown Road; the surface consisting of bituminous concrete. The proposal amounted to \$523,130.30. This work is now in progress.

LEOMINSTER

June 8, 1954, contract made with R. W. LeBaron, Inc. of Arlington, for furnishing and installing traffic control signals at the junction of Routes 12 and 13. The proposal amounted to \$4,830.00. This work is now in progress.

QUINCY-WEYMOUTH

June 8, 1954, contract made with South Shore Waterproofing Company of Quincy, for caulking and pointing masonry on the Fore River Bridge on Route 3A. The proposal amounted to \$3,265.00. This work is now in progress.

GLOUCESTER

June 8, 1954, contract made with Corey Steeplejacks, Inc. of Lowell, for cleaning and painting the control house and exposed metal surfaces of Blynman Bridge on Auto Route 127. The proposal amounted to \$2,230.00. This work is now in progress.

SOMERSET

June 8, 1954, contract made with Municipal Signal & Supply Company of Boston, for furnishing and installing traffic control signals at the intersection of Route 6 and Brayton Avenue. The proposal amounted to \$6,163.00. This work is now in progress.

SANDWICH

June 22, 1954, contract made with Gallo Construction Co., Inc. of Bourne, for making repairs to bridge on Auto Route #6A over Mill Creek. The proposal amounted to \$6,850.00. This work is now in progress.

NORTH ADAMS

June 22, 1954, contract made with David M. Deans of Williamstown, for constructing about 1,350 feet of State highway on Beaver Street including the construction of a single span through-plate-girder bridge over the North Branch of the Hoosic River; the surface consisting of bituminous concrete. The proposal amounted to \$253,832.00. This work is now in progress.

MATTAPOISETT

June 22, 1954, contract made with Eastern Roads Co., Inc. of Boston, for reconstructing about 24,447 feet of State highway on Route 6 including the partial reconstruction and alteration of a bridge over Herring River; the surface consisting of bituminous concrete. The proposal amounted to \$566,440.75. This work is now in progress.

GREAT BARRINGTON

June 22, 1954, contract made with Petricca Construction Company of Pittsfield, for reconstructing about 6,207 feet of highway on South Main Street; the surface consisting of bituminous concrete. The proposal amounted to \$125,475.00. This work is now in progress.

CHARLTON

June 22, 1954, contract made with The Henley-Lundgren Company of Shrewsbury, for constructing a single span steel stringer bridge on Route 31 over the tracks of the Boston and Albany Railroad and approaches thereto; the surface consisting of bituminous concrete. This work is now in progress.

UPTON

June 29, 1954, contract made with Hill Construction Company of Millbury, for reconstructing about 11,000 feet of State highway on Milford Street; the surface consisting of bituminous concrete. The proposal amounted to \$30,992.50. This work is now in progress.



STURBRIDGE

June 29, 1954, contract made with Ciesla Bros., Inc. of Southbridge, for widening roadway, installing drainage and constructing bituminous concrete shoulders at two sections of State highway on Southbridge Road. The proposal amounted to \$34,569.80. This work is now in progress.

CHICOPEE

June 29, 1954, contract made with R. W. LeBaron, Inc. of Arlington, for furnishing and installing traffic control signals at the intersection of Route 116 and Granby Road. The proposal amounted to \$4,349.00. This work is now in progress.

GREAT BARRINGTON

June 29, 1954, contract made with John DeMichiel and Brothers, Inc. of Torrington, Connecticut, for reconstructing about 2,100 feet of highway on Egremont Road; the surface consisting of bituminous concrete. The proposal amounted to \$68,311.00. This work is now in progress.

PUBLIC WORKS BUILDING CONTRACTS - July 1, 1953 - June 30, 1954

The following contracts were entered into during the year for miscellaneous work in the Office Building of the Department of Public Works, 100 Nashua Street, Boston.

August 11, 1953, contract made with Star Cleaning & Contracting Company of Cambridge, for cleaning windows. The proposal amounted to \$1,734.00. Work completed June 30, 1954. Expenditure during fiscal year \$1,734.00.

August 25, 1954, contract made with Wills & Hill of Boston, for furnishing and installing partitions on the Fourth Floor. The proposal amounted to \$200.00. Work completed September 3, 1953. Expenditure during fiscal year \$228.00.

September 8, 1953, contract made with Wills & Hill of Boston, for furnishing and installing partitions on the Fifth and Seventh Floors. The proposal amounted to \$592.00. Work completed September 22, 1953. Expenditure during fiscal year \$592.00.

November 25, 1953, contract made with Astor Exterminating Co. of Boston, for pest control service. The proposal amounted to \$648.00. This work is now in progress.

December 22, 1953, contract made with Rit-Mar Shade & Screen Co. of Brighton, for furnishing and installing window shades. The proposal amounted to \$381.49. Work completed June 30, 1954.

January 5, 1954, contract made with John F. Hynes Incorporated of Boston, for installing partitions on the Tenth Floor. The proposal amounted to \$700.00. Work completed March 26, 1954. Expenditure during fiscal year \$700.00.

January 26, 1954, contract made with The Kinnear Manufacturing Company of Boston, for furnishing and installing overhead door at delivery entrance. The proposal amounted to \$733.00. Work completed April 23, 1954. Expenditure during fiscal year \$733.00.

April 6, 1954, contract made with Wills & Hill of Boston, for making changes in the partitions on the Seventh Floor. The proposal amounted to \$780.00. Work completed May 14, 1954. Expenditure during fiscal year \$996.00.

June 8, 1954, contract made with J. M. McCusker Co. of Boston, for plumbing and drainage work. The proposal amounted to \$15,560.00. This work is now in progress.



## BORINGS

~~July 1, 1953 - June 30, 1954~~

The following contracts were entered into for taking borings in various municipalities:

July 14, 1953, contract made with Pilgrim Test Boring Corp. of Boston, for taking wash borings in the municipalities of Dedham, Needham, Duxbury, Kingston and Charlton. The proposal amounted to \$2.10 per lineal foot. Work completed October 1, 1953. Expenditure during fiscal year \$3,344.46.

July 21, 1953, contract made with Raymond Concrete Pile Company of Boston, for taking wash borings and making soil tests for the proposed Southeast Expressway in the municipalities of Boston, Milton, Dedham and Littleton. The proposal amounted to \$1.25 per lineal foot for borings, \$10.00 each for Vane Shear Tests and \$22.50 each for 2" Shelby Tube Samples. Work completed October 2, 1953. Expenditure during fiscal year \$1,669.38.

August 25, 1953, contract made with Raymond Concrete Pile Company of Boston, for taking wash borings in the municipalities of Agawam, North Adams, Southbridge and West Springfield. The proposal amounted to \$2.43 per lineal foot. Work Completed October 14, 1953. Expenditure during fiscal year \$2,980.16.

November 3, 1953, contract made with American Drilling Co. Inc. of East Providence, Rhode Island, for taking wash, core and core preparatory borings at the site of a proposed grade crossing elimination in the town of Mansfield. The proposal amounted to \$2.30 for wash borings, \$5.75 for core borings and \$2.30 for core preparatory borings, each per lineal foot. Work completed February 1, 1954. Expenditure during fiscal year \$6,166.07.

December 8, 1953, contract made with B. F. Smith and Company, Incorporated of Somerville, for taking wash borings at Salisbury Beach. The proposal amounted to \$1.57 per lineal foot. Work completed December 11, 1953. Expenditure during fiscal year \$478.38.

December 8, 1953, contract made with B. F. Smith and Company, Incorporated of Somerville, for taking wash borings in the municipalities of Chicopee, Danvers, Hubbardston, Orleans, Plympton and Yarmouth. The proposal amounted to \$1.57 per lineal foot. Work completed January 21, 1954. Expenditure during fiscal year \$1,645.36.

December 8, 1953, contract made with B. F. Smith and Company, Incorporated of Somerville, for taking wash borings in the municipalities of Holden, Natick, Newton, Wellesley, Revere, Spencer and Taunton. The proposal amounted to \$1.57 per lineal foot. Work completed January 22, 1954. Expenditure during fiscal year \$1,102.30

January 19, 1954, contract made with Carr-Dee Test Boring & Construction Corp. of Boston, for taking wash borings, core preparatory borings and core borings in Winchester. The proposal amounted to \$1.20 for wash borings, \$3.00 for core preparatory borings and \$6.00 for core borings, each per lineal foot. Work completed February 20, 1954. Expenditure during fiscal year \$2,126.40.

January 19, 1954, contract made with American Drilling Co. Inc. of East Providence, Rhode Island, for taking wash borings, core preparatory borings and core borings in part of the area of proposed Relocation of Route 3 in Duxbury and Kingston. The proposal amounted to \$2.20 for wash borings, \$3.80 for core preparatory borings and \$11.90 for core borings, each per lineal foot. Work completed March 24, 1954. Expenditure during fiscal year \$7,738.23.

February 9, 1954, contract made with Raymond Concrete Pile Company of Boston, for taking borings and securing undisturbed boring samples on the line of proposed Northeast Expressway in Chelsea and Revere. The proposal amounted to \$1.60 for wash borings, \$5.90 for core preparatory borings and \$9.00 for core borings, each per lineal foot and \$15.00 each for 2" Shelby Tube Samples. Work completed April 14, 1954. Expenditure during fiscal year \$11,645.65.

February 9, 1954, contract made with B. F. Smith and Company, Incorporated of Somerville, for taking wash borings in Auburn and Milton. The proposal amounted to \$1.82 per lineal foot. Work completed March 17, 1954. Expenditure during fiscal year \$651.01.

February 9, 1954, contract made with B. F. Smith and Company, Incorporated of Somerville, for taking wash borings in the municipalities of Chelmsford, Fall River, Lee and New Ashford. The proposal amounted to \$1.82 per lineal foot. Work completed March 9, 1954. Expenditure during fiscal year \$1,218.31.

March 2, 1954, contract made with Raymond Concrete Pile Company of Boston, for taking wash borings and undisturbed samples in the area of the South End Bridge in the municipalities of Agawam and Springfield. The proposal amounted to \$148.00 per diem. Work completed March 27, 1954. Expenditure during fiscal year \$3,108.00.

March 9, 1954, contract made with Raymond Concrete Pile Company of Boston, for taking wash borings, core preparatory borings and core borings on the line of the proposed Revere Beach Parkway Relocation in Everett. The proposal amounted to \$1.20 for wash borings, \$1.40 for core preparatory borings and \$8.50 for core borings, each per lineal foot. This work is now in progress.

April 6, 1954, contract made with Raymond Concrete Pile Company of Boston, for making investigation of the sub-soil conditions adjacent to Route 2 in Charlemont. The proposal amounted to \$145.70 per diem. This work is now in progress.



April 27, 1954, contract made with Carr-Dee Test Boring & Construction Corporation of Boston, for taking borings in the municipalities of Athol, Canton, Dedham, Fall River, Orange and Westwood. The proposal amounted to \$2.15 for wash borings, \$3.00 for core preparatory borings and \$8.00 for core borings, each per lineal foot. Work completed June 30, 1954. Expenditure during fiscal year \$10,909.88.

April 27, 1954, contract made with Carr-Dee Test Boring & Construction Corporation of Boston, for taking borings in the municipalities of Bellingham, Holyoke, South Hadley and Southbridge. The proposal amounted to \$2.15 for wash borings, \$3.00 for core preparatory borings and \$8.00 for core borings, each per lineal foot. This work is now in progress.

April 27, 1954, contract made with Carr-Dee Test Boring & Construction Corporation of Boston, for taking wash borings at the John J. Ryan, Jr. Playground in Charlestown. The proposal amounted to \$2.15 per lineal foot. Work completed May 15, 1954. Expenditure during fiscal year \$611.68.

June 8, 1954, contract made with Raymond Concrete Pile Company of Boston, for taking wash borings, installing well points in selected boring holes and securing undisturbed samples at the Boston and Maine Railroad Tunnel under Norman and Mill Streets in Salem. The proposal amounted to \$2.44 per lineal foot for wash borings, \$18.00 each for installing well points and \$17.50 each for undisturbed samples. This work is now in progress.

#### MISCELLANEOUS SMALL CONTRACTS

In order to promptly expedite the greatly accelerated highway and bridge construction and reconstruction program, made possible by the 1949 Bond Issue of one hundred million dollars (Chapter 306), the 1950 Bond Issue of one hundred million dollars (Chapter 685), the 1952 Bond Issue of two hundred million dollars (Chapter 556) and the Department's regular annual appropriations, the Department found it necessary, because of the insufficient number of its permanent personnel, to award a number of contracts for outside services. These services included the making of surveys (ground and aerial), the preparation of plans and specifications for certain highway and bridge projects and garages for the use of the Department's Maintenance Division, testing and inspection of road and bridge materials, the appraisal and conveyancing of land and buildings taken for construction purposes, and other miscellaneous items.



~~July 1, 1952 - June 30, 1953.~~

The following contracts were entered into for miscellaneous work:

REAL ESTATE REVIEW BOARD

July 1, 1953, contract made with Arthur P. Wilcox, Roy E. Connor, Alfred H. Dolben, H. Kingsley Durant and Carleton Hunneman, all of Boston, for consultant services as a review board in connection with the examination and review of land damage appraisals.. The proposal amounted to \$125.00 per diem per person. Work completed December 31, 1953. Expenditure during fiscal year \$8,875.00.

INSPECT MATERIALS

July 7, 1953, contract made with Pittsburgh Testing Laboratory of Boston, for inspecting material to be used in highway and bridge projects. The proposal amounted to \$12,072.50. This work is now in progress.

INSPECTION SERVICES

July 7, 1953, contract made with Hub Testing Laboratory of Cambridge, for inspection of riveting and welding on construction projects. The proposal amounted to \$21,000.00. This work is now in progress.

BOSTON-CHELSEA

July 21, 1953, contract made with Carney Construction Company, Inc. of Somerville, for consultant and inspection services on the erection and painting of the steel superstructure of the Andrew P. McArdle Bridge. The proposal amounted to \$10,297.68. This work is now in progress.

FALL RIVER-SOMERSET-FAIRHAVEN-NEW BEDFORD

August 25, 1953, contract made with C. Ray Norris & Son of Malden, for underwater inspection at the Brightman Street Bridge and three bridges between New Bedford and Fairhaven. The proposal amounted to \$3,770.00. Work completed October 23, 1953. Expenditure during fiscal year \$3,770.00.

MIDDLETON

September 1, 1953, contract made with Radio Towers of Wilmington, for furnishing and erecting antenna tower. The proposal amounted to \$1,744.25. Work completed December 10, 1953. Expenditure during fiscal year \$1,744.25.

AMESBURY-NEWBURYPORT

September 1, 1953, contract made with Carney Construction Company, Inc. of Somerville, for consultant and inspection services on the erection and painting of bridge over Merrimac River. The proposal amounted to \$11,948.60. This work is now in progress.

NORTHEAST EXPRESSWAY

September 8, 1953, contract made with Parsons, Brinckerhoff, Hall and Macdonald of New York, for Consultant engineering services on the design and construction of proposed Northeast Expressway. The proposal amounted to various percentages of an assumed construction cost of the project of \$7,000,000.00. This work is now in progress.

FITCHBURG

September 8, 1953, contract made with Barnes and Jarnis, Inc. of Boston, for engineering services for design of two bridges on Route 2 on Water Street and over Baker Brook. The proposal amounted to various percentages of an estimated cost of the project. This work is now in progress.

HUBBARDSTON-MONTAGUE

September 8, 1953, contract made with C. J. Kray of Boston, for engineering services for design of bridge on Route 68 over Ware River in Hubbardston and on Route 2A over the Canal in Montague. The proposal amounted to various percentages of an estimated cost of the project. This work is now in progress.

BOSTON

September 22, 1953, contract made with Joseph P. McCabe, Inc. of Boston, for grading and paving parking area on the northerly side of Nashua Street near Public Works Building. The proposal amounted to \$19,711.50. Work completed November 28, 1953. Expenditure during fiscal year \$19,238.36.

BOSTON

September 22, 1953, contract made with Aisner and Atwood of Boston, for architectural and engineering services for the construction of the John J. Ryan, Jr. Playground at Sullivan Square. The proposal amounted to various percentages of cost of the project. This work is now in progress.

ORGANIZATION STUDY

September 29, 1953, contract made with Ernst & Ernst of Boston, for study of organization structures of the Department of Public Works. The proposal amounted to \$55,000.00. Work completed March 20, 1954. Expenditure during fiscal year \$55,000.00.

CONSULTANT

October 6, 1953, contract made with Francis J. Landry of Brighton, for consultant services on public relations. The proposal amounted to \$5,500.00 per year. Work completed April 15, 1954. Expenditure during fiscal year \$2,750.00.

WORCESTER

October 19, 1953, contract made with Fred G. Walters Co. of Worcester, for furnishing and installing an interoffice telephone system at the Highway Administration Building on Belmont Street. The proposal amounted to \$1,479.20. Work completed December 16, 1953. Expenditure during fiscal year \$1,479.20.

WINDSOR

October 27, 1953, contract made with J. L. J. Construction Co. of Brighton, for constructing concrete block building to house radio transmitter. The proposal amounted to \$2,966.00. Work completed April 12, 1954. Expenditure during fiscal year \$2,966.00.



AERIAL PHOTOGRAPHS AND CONTOUR MAPS

October 27, 1953, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making aerial photographs and aerial contour maps of proposed highway on easterly side of the Connecticut River in the vicinity of Longmeadow. The proposal amounted to \$3,520.00. Work completed March 3, 1954. Expenditure during fiscal year \$3,520.00.

AERIAL PHOTOGRAPHS AND TOPOGRAPHIC MAPS

October 27, 1953, contract made with Aero Service Corporation of Pennsylvania, for making aerial photographs and aerial topographic maps of proposed development of Route 56 between Route 12 in Oxford and Route 122 in Paxton. The proposal amounted to \$11,930.00. Work completed February 23, 1954. Expenditure during fiscal year \$11,930.00.

BOSTON

October 27, 1953, contract made with Carney Construction Company, Inc. of Somerville, for furnishing consultant and inspection services on erection of steel on the superstructures on Sections C2-a, C2-b, C2-c, D2, H2-a and H2-b of the John F. Fitzgerald Expressway. The proposal amounted to \$42,800.40. This work is now in progress.

AERIAL CONTOUR MAPS

October 27, 1953, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making aerial contour maps of Route 3 from the end of the new construction in Chelmsford northerly to the New Hampshire State line. The proposal amounted to \$7,535.00. Work completed June 10, 1954. Expenditure during fiscal year \$7,535.00.

AERIAL TOPOGRAPHIC MAPS

October 27, 1953, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making aerial contour maps of Tri-State highway from new highway bridge in Tiverton, Rhode Island, northerly to the Narrows in Fall River. The proposal amounted to \$5,362.50. This work is now in progress.

AERIAL PHOTOGRAPHS

October 27, 1953, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making aerial photographs of Route 6 from the Narrows in Fall River to New Bedford. The proposal amounted to \$300.00. Work completed December 4, 1953. Expenditure during fiscal year \$300.00.

AERIAL PHOTOGRAMMETRIC MAPS

December 8, 1953, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making aerial photogrammetric maps from the vicinity of Dover Street to cover Southampton Street-Massachusetts Avenue area for the John F. Fitzgerald Expressway. The proposal amounted to \$6,409.00. Work completed February 3, 1954. Expenditure during fiscal year \$6,409.00.

CONTACT PRINTS AND PHOTOGRAMMETRIC MAPS

November 10, 1953, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making contact prints and photogrammetric maps of proposed Southeast Expressway, from a point about 1,500 feet north of Columbia Circle to Neponset Circle. The proposal amounted to \$10,082.00. Work completed March 10, 1954. Expenditure during fiscal year \$10,082.00.

AERIAL PHOTOGRAPHS AND MAPS

November 17, 1953, contract made with Lockwood, Kessler & Bartlett, Inc. of New York, for making aerial photographs and photogrammetric maps for a study of the Relocation of Route 28 from the traffic circle at Camp Edwards Road to Woods Hole. The proposal amounted to \$10,400.00. Work completed March 19, 1954. Expenditure during fiscal year \$10,400.00.

AGAWAM-SPRINGFIELD

November 17, 1953, contract made with Carney Construction Company, Inc. of Somerville, for inspection and consultant services on steel erection and painting of superstructure of bridge over Connecticut River. The proposal amounted to \$10,725.00. This work is now in progress.

CHICOPEE-HOLYOKE

November 25, 1953, contract made with Carney Construction Company, Inc. of Somerville, for inspection and consultant services for making a survey of the Willimansett Bridge over the Connecticut River. The proposal amounted to \$2,408.00. Work completed January 26, 1954. Expenditure during fiscal year \$2,012.00.

MIDDLEBOROUGH

November 25, 1953, contract made with Atlas Builder Specialty Co., Inc. of Raynham, for making repairs to the overhead doors at the Vine Street Storehouse. The proposal amounted to \$446.65. Work completed January 20, 1954. Expenditure during fiscal year \$446.65.

KINGSTON BY-PASS

December 1, 1953, contract made with Universal Engineering Corporation of Boston, for engineering services for highway improvement of the Kingston By-pass, so called. The proposal amounted to various percentages of an assumed construction cost of \$3,000,000.00. This work is now in progress.

AERIAL CONTACT PRINTS AND PHOTOGRAMMETRIC MAPS

December 1, 1953, contract made with Lockwood, Kessler & Bartlett, Inc. of New York, for making contact prints and photogrammetric maps for a study of the relocation of Route 28 from the Middleborough Traffic Circle to South Middleborough. The proposal amounted to \$10,200.00. Work completed April 21, 1954. Expenditure during fiscal year \$10,200.00.

AERIAL PHOTOGRAMMETRIC MAPS

December 8, 1953, contract made with Jack Ammann, Photogrammetric Engineers, for making contact prints and photogrammetric maps for a study of Relocation of Route 2 from the end of the Orange-Athol Bypass to the French King Bridge in Greenfield. The proposal



amounted to \$10,971.00. Work completed June 29, 1954. Expenditure during fiscal year \$10,971.00.

#### LEGISLATIVE REPORTS

December 8, 1953, contract made with Legislative Reporting Service of Boston, for services on legislative bills for 1954. The proposal amounted to \$1.15 each bill on which service is rendered plus postage. This work is still in progress.

#### TELEVISION NEWSREEL FILMS

December 8, 1953, contract made with Acorn Films of Boston, for filming of projects, processing of films and servicing of television stations. The proposal amounted to \$3,900.00. This work is still in progress.

#### SALISBURY

December 22, 1953, contract made with Coletti Brothers of Wollaston, for architectural services for the Salisbury Beach Reservation, including design of bathhouse. The proposal amounted to various percentages of the cost of the project. This work is now in progress.

#### MANSFIELD

December 22, 1953, contract made with Maurice A. Reidy-Clarkeson Engineering Company, Inc. of Boston, for engineering services on the elimination of the railroad grade crossings. The proposal amounted to various percentages of the cost of the project. This work is now in progress.

#### PLYMOUTH-BOURNE BY-PASS

December 22, 1953, contract made with Whitman & Howard, Inc. of Boston, for engineering services for highway improvement of the Plymouth-Bourne By-Pass, so called, (Relocation of Route 3). The proposal amounted to various percentages of the cost of the project. This work is now in progress.

#### WEATHER FORECASTING SERVICE

December 22, 1953, contract made with Weather Services, Inc. of Boston, for weather forecasting service. The proposal amounted to \$1,543.15. This work is now in progress.

#### SOUTHEAST EXPRESSWAY

December 22, 1953, contract made with Edwards, Kelcey and Beck of Boston, for engineering services for highway improvement of the Southeast Expressway Connection, so called. The proposal amounted to various percentages of the cost of the project. This work is now in progress.

#### CONVEYANCER

December 29, 1953, contract made with Charles A. Whalen of Waltham, for conveyancing services in connection with land takings. The proposal amounted to \$400.00 per month. Work completed June 30, 1954. Expenditure during fiscal year \$2,411.16.

#### CONVEYANCER

December 29, 1953, contract made with Joseph Linhares of Somerville, for conveyancing services in connection with land takings. The proposal amounted to \$500.00 per month. Work completed June 30, 1954. Expenditure during fiscal year \$2,600.78

CONSULTANT

December 29, 1953, contract made with Frederick J. McNamara of Rockport, for consultant services on public relations. The proposal amounted to \$6,000.00 per year. Work completed June 30, 1954. Expenditure during fiscal year \$3,000.00.

REAL ESTATE REVIEW BOARD

December 29, 1953, contract made with Arthur P. Wilcox, Roy E. Connor, Alfred H. Dolben, H. Kingsley Durant and Carleton Hunneman, all of Boston, for consultant services on land damage appraisals. Work completed June 30, 1954. Expenditure during fiscal year \$1,812.50. The proposal amounted to \$125.00 per day per man.

ENGINEERING SERVICES

January 5, 1954, contract made with Gordon E. Ainsworth of Deerfield, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$39,140.52.

ENGINEERING SERVICES

January 5, 1954, contract made with Rowland H. Barnes & Co. of Waltham, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$56,953.59.

ENGINEERING SERVICES

January 5, 1954, contract made with Peter K. Beshara, Jr. of Lawrence, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$12,090.56.

ENGINEERING SERVICES

January 5, 1954, contract made with Coffin & Richardson, Inc. of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$13,085.82.

ENGINEERING SERVICES

January 5, 1954, contract made with Raymond F. Connor of Medford, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$61,639.47.

ENGINEERING SERVICES

January 5, 1954, contract made with Charles E. Dyr of Lawrence, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$14,567.85.

ENGINEERING SERVICES

January 5, 1954, contract made with Harry R. Feldman of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$45,974.09.



ENGINEERING SERVICES

January 5, 1954, contract made with MacCarthy Engineering Service, Inc. of Natick, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$22,223.09.

ENGINEERING SERVICES

January 5, 1954, contract made with Merrimack Civil Engineering, Incorporated of Lawrence, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$11,803.26.

ENGINEERING SERVICES

January 5, 1954, contract made with Gay T. Moore of Lawrence, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$11,578.81.

ENGINEERING SERVICES

January 5, 1954, contract made with Wilbert T. Moore of Shrewsbury, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$22,873.25.

ENGINEERING SERVICES

January 5, 1954, contract made with New England Survey Service Inc. of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$81,450.91.

ENGINEERING SERVICES

January 5, 1954, contract made with Spaulding E. Owen of Haverhill, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$11,878.76.

ENGINEERING SERVICES

January 5, 1954, contract made with Dana F. Perkins & Son, Inc. of Reading, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$12,097.72.

ENGINEERING SERVICES

January 5, 1954, contract made with Alexander C. Peters of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$33,666.40.

ENGINEERING SERVICES

January 5, 1954, contract made with Walter E. Rowley of Wareham, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$10,460.72.

ENGINEERING SERVICES

January 5, 1954, contract made with Charles N. Savery of Barnstable, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$11,028.10.

ENGINEERING SERVICES

January 5, 1954, contract made with Schofield Brothers of Orleans, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$10,718.86.

ENGINEERING SERVICES

January 5, 1954, contract made with Whitman & Howard, Inc. of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$10,491.80.

BOSTON

January 12, 1954, contract made with Charles A. Maguire & Associates-Fay, Spofford & Thorndike of Boston, for consultant engineering services on the John F. Fitzgerald Expressway at Kneeland and Southampton Streets and interchanges with the South-east Expressway and Southwest Expressway. The proposal amounted to various percentages of the cost of the project. This work is now in progress.

WELLESLEY

January 19, 1954, contract made with Cyclone Fence Department, American Steel and Wire Division, United States Steel Corporation of Malden, for installing chain-link fence at the Department's Maintenance and Traffic Depot. The proposal amounted to \$4,058.75. Work completed April 23, 1954. Expenditure during fiscal year \$3,944.01.

SALEM

January 28, 1954, contract made with Singstad and Baillie of New York, for engineering services for grade crossing elimination. The proposal amounted to various percentages of the cost of the project. This work is now in progress.

WORCESTER

February 9, 1954, contract made with Bay State Cleaning Co. of Worcester, for washing windows in the District Office Building at 403 Belmont Street. The proposal amounted to \$570.00. This work is now in progress.

NORTH ADAMS

February 9, 1954, contract made with Abraham Woolf of Boston, for engineering services for highway improvement. The proposal amounted to various percentages of the costs of the project. This work is now in progress.

SALISBURY

February 23, 1954, contract made with Bagley-Mucci, Inc. of Medford, for construction of a bathhouse, pavilion and parking house. The proposal amounted to \$293,393.00. This work is now in progress.



MOTION PICTURE FILM

February 23, 1954, contract made with Acorn Films of Boston, for making motion picture film. The proposal amounted to \$3,250.00. This work is now in progress.

ENGINEERING SERVICES

March 2, 1954, contract made with John F. Hennessy of Brookline, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$7,700.62.

ENGINEERING SERVICES

March 2, 1954, contract made with Raymond C. Pressey, Inc. of Lynn, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$7,700.62.

ENGINEERING SERVICES

March 2, 1954, contract made with Kenneth E. McIntyre of Walpole, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$6,619.78.

ENGINEERING SERVICES

March 2, 1954, contract made with Arthur N. Parmenter of Shrewsbury, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work completed June 30, 1954. Expenditure during fiscal year \$6,836.80.

ORGANIZATION STUDY

March 8, 1954, contract made with Ernst and Ernst of Boston, for consultant services for study of departmental positions. The proposal amounted to \$10,000.00. This work is now in progress.

WELLESLEY

March 16, 1954, contract made with Aerial Tower Construction Co. of Boston, for furnishing and erecting antenna tower. The proposal amounted to \$1,785.00. ~~Work completed~~ This work is now in progress.

NEEDHAM

March 23, 1954, contract made with Framingham Building Wrecking Co. of Framingham, for demolition of structures at Central Avenue. The proposal amounted to \$500.00. Work completed April 2, 1954. Expenditure during fiscal year \$500.00.

SALISBURY

March 29, 1954, contract made with Victor A. Cusanello of Worcester, for services as Clerk-of-the-Works in connection with the construction of a bathhouse and other facilities. The proposal amounted to \$125.00 per day. This work is now in progress.

AERIAL PHOTOGRAMMETRIC MAPS

March 30, 1954, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making photogrammetric maps for the relocation of Route 116 in Amherst to the Sunderland town line. The proposal amounted to \$10,350.00. This work is now in progress.

AERIAL PHOTOGRAMMETRIC MAPS

March 30, 1954, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making photogrammetric maps for relocation of Route 5 in the vicinity of West Springfield and Holyoke. The proposal amounted to \$13,320.00. This work is now in progress.

AERIAL PHOTOGRAPHS

April 6, 1954, contract made with New England Survey Service Inc. of Boston, for making aerial photographs of designated areas. The proposal amounted to \$7,000.00. This work is now in progress.

CONSULTANT

April 13, 1954, contract made with Harry A. Belyea of Newton, for consultant services on public relations. The proposal amounted to \$5,700.00 per year. Work completed June 30, 1954. Expenditure during fiscal year \$1,124.17.

CONSULTANT

April 13, 1954, contract made with Francis J. Landry of Brighton, for consultant services on public relations. The proposal amounted to \$5,500.00 per year. Work completed May 15, 1954. Expenditure during fiscal year \$458.33.

AERIAL PHOTOGRAMMETRIC MAPS

April 13, 1954, contract made with Lockwood, Kessler & Bartlett, Inc. of Brooklyn, New York, for making aerial photogrammetric maps of Route 138 Relocation in Avon, Stoughton, Canton and Randolph. The proposal amounted to \$4,500.00. This work is now in progress.

AERIAL PHOTOGRAMMETRIC MAPS

April 13, 1954, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making aerial photogrammetric maps of a section between the proposed interchange on Route 128 Relocation at the Southeast Expressway in Braintree and the Fore River Bridge in Quincy. The proposal amounted to \$3,650.00. This work is now in progress.

OTIS

April 20, 1954, contract made with R. E. Chapman Company of West Boylston, for driving a water well. The proposal amounted to \$3,240.00. Work completed June 4, 1954. Expenditure during fiscal year \$3,215.00.

MONTEREY

April 20, 1954, contract made with Radio Towers of Wilmington, for erecting one Milliken South Line Transmission Tower. The proposal amounted to \$872.42. This work is now in progress.

BOSTON-WELLESLEY

May 4, 1954, contract made with E. H. Hinds Trucking, Inc. of Watertown, for removing, transporting and reinstalling testing machine and other equipment from Laboratory at 100 Nashua Street, Boston to new Department Laboratory in Wellesley. The proposal amounted to \$1,281.48. This work is now in progress.

AERIAL PHOTOGRAMMETRIC MAPS

May 4, 1954, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making photogrammetric maps for a study of a highway connection between New Route 1 and Salisbury Beach. The proposal amounted to \$5,554.00. This work is now in progress.



AERIAL PHOTOGRAMMETRIC MAPS

May 4, 1954, contract made with Fairchild Aerial Surveys, Inc. of Boston, for making aerial photogrammetric maps for a study of the relocation of Route 28 from South Middleborough to Route 3 in Sagamore. The proposal amounted to \$23,470.00. This work is now in progress.

AGAWAM-SPRINGFIELD

May 4, 1954, contract made with Maurice A. Reidy of Boston, for consultant services on construction and related design problems on approaches to the South End Bridge. The proposal amounted to \$120.00 and \$100.00 per day. this work is now in progress.

SEISMIC STUDIES

May 11, 1954, contract made with Daniel Linehan, S. J. of Weston, for making sub-surface explorations in Braintree and Weymouth along the proposed location of the Southeast Expressway. The proposal amounted to \$350.00 per day. Work completed May 15, 1954. Expenditure during fiscal year \$1,050.00.

BOSTON

May 12, 1954, contract made with Charles A. Maguire & Associates-Fay, Spofford & Thorndike of Boston, for engineering services for the design and construction of a garage on Nashua Street. The proposal amounted to 5% of the construction cost of the work designed. This work is now in progress.

CONSULTANT

May 18, 1954, contract made with Francis J. Landry of Brighton, for consultant services on public relations. The proposal amounted to \$5,500.00 per year. Work completed June 15, 1954.

DARTMOUTH

May 18, 1954, contract made with Sullivan-Foster, Inc. of New Bedford, for constructing brick Maintenance Foreman's Garage on Route 6. The proposal amounted to \$63,386.00. This work is now in progress.

ENGINEERING SERVICES

May 18, 1954, contract made with Hunt & Slayter of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. This work is now in progress.

WORCESTER

May 18, 1954, contract made with The Power Regulator Company of Boston, for making alterations to heating system at Worcester Administration Building. The proposal amounted to \$835.00. This work is now in progress.

AMESBURY-NEWBURYPORT

May 25, 1954, contract made with Emilius R. Ciampa of Boston, for furnishing transporting and erecting bronze tablet on John Greenleaf Whittier Bridge. The proposal amounted to \$4,000.00. This work is now in progress.

WELLESLEY

June 1, 1954, contract made with Scaldini, Inc. of Medford, for constructing storage building at Maintenance and Traffic Depot. The proposal amounted to \$121,941.00 This work is now in progress.

CHICOPEE-HOLYOKE

June 8, 1954, contract made with Casimir J. Kray of Boston, for

engineering services for proposed repairs to the Williamansett Bridge on the Connecticut River. The proposal amounted to various percentages of the cost of construction. This work is now in progress.

RADIO MAINTENANCE

June 15, 1954, contract made with Alfred J. Nielsen of Hanover, for maintenance of two-way radio communication equipment. Work not yet commenced.

RADIO MAINTENANCE

June 15, 1954, contract made with Pack Engineering Company of Pittsfield, for maintenance of two-way radio communication equipment. Work not commenced.

CONSULTANT

June 22, 1954, contract made with Frederick J. McNamara of Rockport, for consultant services on public relations. The proposal amounted to \$6,200.00 per year. Work not yet commenced.

CONSULTANT

June 22, 1954, contract made with Harry W. Belyea of Newton, for consultant services on public relations. The proposal amounted to \$5,800.00 per year. Work not yet commenced.

REAL ESTATE REVIEW BOARD

June 22, 1954, contract made with Arthur P. Wilcox, Roy E. Connor, Alfred H. Dolben, H. Kingsley Durant and Carleton Hunneman, of Boston, for consultant services as a review board in connection with the examination and review of land damage appraisals. The proposal amounted to \$125.00 per day per man. Work not yet commenced.

CONSULTANT

June 22, 1954, contract made with Joseph Linhares of Somerville, for consultant services on land takings. The proposal amounted to \$6,200.00 per year. Work not yet commenced.

CONSULTANT

June 22, 1954, contract made with Charles A. Whalen of Waltham, for consultant services on land takings. The proposal amounted to \$4,800.00 per year. Work not yet commenced.

CONSULTANT

June 22, 1954, contract made with Edmund J. Dwyer of Belmont for consultant services as Director of Accounting for the Business Agent's Section. The proposal amounted to \$8,280.00 per year. This work is now in progress.

BOSTON

June 22, 1954, contract made with Warren H. Bennett, Inc. of Medford, for furnishing and installing lights at Department's garage at Chelsea Street. The proposal amounted to \$750.00. Work not yet commenced.

BOSTON

June 22, 1954, contract made with Boston Chain Link Fence Co. of Winthrop, for furnishing and installing chain link fence under portion of East Boston Expressway at Chelsea Street. The proposal amounted to \$870.00. Work not yet commenced.



TELEVISION NEWSREEL FILMS

June 22, 1954, contract made with Acorn Films of Boston, for making television newsreel films of highway projects. The proposal amounted to \$3,900.00. Work not yet commenced.

BOSTON

June 29, 1954, contract made with Parkman Construction Company, Inc. of Boston, for constructing a concrete block garage on Nashua Street. The proposal amounted to \$34,270.00. Work not yet commenced.

BERNARDSTON

June 29, 1954, contract made with Gordon & Sutton, of North Adams, for constructing a brick Foreman's Garage on Route 10. The proposal amounted to \$72,223.00. Work not yet commenced.

INSPECT MATERIALS

June 29, 1954, contract made with Pittsburgh Testing Laboratory of Boston, for inspecting material to be used in highway and bridge projects. The proposal amounted to \$12,072.50. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Rowland H. Barnes & Co. of Newton, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Gordon E. Ainsworth of Deerfield, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Peter K. Beshara, Jr. of Lawrence, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Coffin & Richardson, Inc. of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Raymond F. Connor of Medford, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Charles E. Cyr of Lawrence, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Harry R. Feldman of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with John F. Hennessy of Brookline, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with MacCarthy Engineering Service Inc. of Natick, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Kenneth E. McIntyre of Walpole, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Merrimack Civil Engineering, Incorporated, of Lawrence, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Guy T. Moore of Lawrence, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with W. T. Moore & Son of Shrewsbury, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with New England Survey Service, Inc. of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Arthur N. Parmenter of Shrewsbury, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Alexander C. Peters of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.



ENGINEERING SERVICES

June 29, 1954, contract made with Raymond C. Pressey, Inc. of Lynn, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Walter E. Rowley of Wareham, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Charles N. Savery Company of Barnstable, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Schofield Brothers of Orleans, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Whitman & Howard, Inc. of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

ENGINEERING SERVICES

June 29, 1954, contract made with Hunt & Slayter of Boston, for furnishing survey parties for highway projects. The proposal amounted to \$80.00 per day per party. Work not yet commenced.

FRAMINGHAM

June 29, 1954, contract made with Charles T. Main, Inc. of Boston, for engineering services for the elimination of the railroad grade crossings. The proposal amounted <sup>to</sup> a percentage of the cost of the project. Work not yet commenced.

## FEDERAL AID IN CONSTRUCTING HIGHWAYS

Statements as to the acts of Congress and the Massachusetts Legislature in respect to the cooperation between the United States and the Commonwealth of Massachusetts in the construction of highways under the Federal Highway Act approved November 9, 1921 may be found in the annual reports of the Department of Public Works for the years 1920 to date. A detailed statement of the Federal Aid Allotments and Projects appears in the Department Report for the Fiscal Year 1933.

Additions and Alterations for the Fiscal Years 1934 to 1939 inclusive and a summary of the Federal Aid Allotments appear in the Department Report for the Fiscal Year 1938. Additions and Alterations for the following years appear in each annual report of the Department.

Following is a statement of the Federal Aid Funds for Projects financed by Federal Aid for the period July 1, 1953 to June 30, 1954.

## STATEMENT OF FEDERAL FUNDS FOR FISCAL YEAR - JULY 1, 1953 TO JUNE 30, 1954

PROJECT	FEDERAL AID NO..	MILEAGE	* ALLOTMENT
BOLTON	S-94(1)	2.641	\$ 218,067.00
BROCKTON	F-344(4)	2.272	1,063,778.00
BROCKTON - WEST BRIDGEWATER	F-344(3)	4.083	2,304,154.50
BUCKLAND - CHARLEMONT	F-185(4)A	0.982	785,909.50
BUCKLAND - SHELBURNE	F-185(4)B	0.111	173,250.00
BUCKLAND - SHELBURNE	F-185(4)C	0.111	95,961.00
CHARLTON	SG-96(1)	0.318	289,040.50
DEDHAM - WESTWOOD	U-229(7)	0.761	875,144.00
DEDHAM - WESTWOOD-NEEDHAM	U-229(6)	1.475	1,133,359.00
DENNIS - YARMOUTH	F-328(3)	4.596	811,377.50
HANCOCK	S-91(2)	1.418	75,537.50
HUBBARDSTON	S-90(4)	0.984	137,737.50
NEEDHAM - WELLESLEY	U-229(5)	3.866	3,585,155.00
SHELBURNE	F-185(4)D	1.232	401,193.50
TRURO	S-95(1)	0.700	10,189.50
WARREN	S-215(6)	2.289	200,036.00
WEST SPRINGFIELD	UI-286(8)	0.738	769,688.00
	T O T A L S	28,577	\$12,929,578.00

\* Allotment Based on Agreement Estimate



## CONSTRUCTION DIVISION

Following is tabulation of the major construction and reconstruction projects placed under contract in the fiscal year July 1, 1953 to June 30, 1954:

### BOSTON CENTRAL ARTERY: FITZGERALD EXPRESSWAY

Erection of the steel superstructure was started on seven sections of the project at a total cost of \$13,421,000.00. This work extended from Charles River Bridge to High Street.

### SOUTHEAST EXPRESSWAY IN MILTON

A section of the new Southeast Expressway in Milton from a point near the Neponset River and extending through East Milton Square to the Quincy line was started. This contract was 1.3 miles in length and is expected to cost \$2,656,000.00.

### WORCESTER

Work was started on the reconstruction of the Lincoln Square area in Worcester. The major features included a vehicular tunnel under the square area and a relocation of the Boston & Maine Railroad tracks in a tunnel under Belmont Street hill area. Two contracts were let for this work and total cost will be about \$5,383,000.00.

A further project in Worcester was the Western Artery, a new parallel route to Main Street designed to relieve traffic volume through Lincoln Square. This work involved expenditure of \$504,000.00.

### WINCHESTER

The first stage of the grade crossing elimination project in Winchester Square was undertaken. This work consisted of the construction of a steel trestle north of the square for the temporary relocation of the main line tracks. This work involved the expenditure of \$500,000.00.

### LOWELL

In Lowell, a new bridge was constructed over the Merrimac River east of the Central Bridge to relieve the traffic congestion in the center of the City of Merrimac Square. Approximately \$831,000 was expended on this project.

### SPRINGFIELD-WEST SPRINGFIELD-AGAWAM

In the Springfield-West Springfield-Agawam area a number of projects were started to carry Route 5 along the west bank of the Connecticut River thru West Springfield and into the Town of Agawam.

The old South End Bridge spanning the river from Meadow Street, Agawam to Columbus Avenue, Springfield was replaced by a new structure at a cost of \$2,627,000.00.

SPRINGFIELD-WEST SPRINGFIELD-AGAWAM (cont'd.)

An interchange in Agawam at the westerly end of the new bridge was constructed at a cost of \$1,500,000.00.

Columbus Avenue adjacent to the easterly end of the new bridge was reconstructed at a cost of \$1,868,000.00.

A mile of new highway along the west bank of the river from the Westfield River northerly to a point north of Memorial Avenue was placed under contract with an expected expenditure of \$2,300,000.00.

Another section extending for 0.7 mile northerly from the above section was constructed at a cost of \$864,000.00.

FALL RIVER EXPRESSWAY

Two additional sections of this route were placed under contract, as follows:

Brockton-West Bridgewater - 4.1 miles at cost of \$3,890,000.00.

Brockton - - - - 3.4 miles at cost of \$2,400,000.00.

Completion of these projects will provide a section of new highway from the outskirts of Fall River to Route 27, the road from Stoughton to Brockton.

ROUTE 128

Work on Route 128 from the Worcester Turnpike easterly was continued with the following projects:

Needham-Wellesley . . . . .	3.9 miles	-	\$4,826,000.00.
Needham-Dedham-Westwood . .	3.0 miles	-	4,500,000.00.
Dedham-Westwood . . . . .	0.8 mile	-	1,543,000.00.

The latter project embraces the extensive interchange required at the junction of Route 128 with Routes 1 and 1A in Dedham.

Substantial progress was made on construction of new Route 3, extending northerly from Route 128 towards New Hampshire.

Contracts were let covering the following sections:

Burlington . . . . .	0.8 mile	-	\$1,522,000.00
Bedford-Billerica . . . . .	3.2 miles	-	2,105,000.00
Billerica . . . . .	1.2 miles	-	687,000.00
			<u>\$4,314,000.00</u>



ROUTE 6

Work on New Route 6 - Mid Cape Highway was continued under following contracts.

Barnstable-Yarmouth	.	4.8 miles	-	\$1,150,000.00
Yarmouth-Dennis	.	4.6 miles	-	1,327,000.00

On Route 6 on the lower cape, the following projects were undertaken.

Truro	.	3.4 miles	-	\$ 900,000.00
Truro-Provincetown	.	5.3 miles	-	1,350,000.00

ROUTE 110

Improvements to Route 110 included the following projects:

Wrentham	.	2.2 miles	-	\$ 365,000.00
Upton	.	1.3 miles	-	291,000.00
Boylston	.		-	<u>357,000.00</u>
				\$1,013,000.00

ROUTE 2

Route #2 west of Greenfield was improved with the following projects:

Bridge over Deerfield River	0.1 mile	-	\$ 182,000.00
between Buckland & Shelburne			
Bridge & Approaches - Charlemont	0.8 mile	-	698,000.00
Buckland-Charlemont )	0.9 mile	-	<u>1,374,000.00</u>
Highway and bridge )			\$2,254,000.00

SALISBURY BEACH

An access road to the new Salisbury Beach Reservation development was constructed for a length of 1.4 miles at a cost of about \$500,000.00.

MISCELLANEOUS

Smaller projects in Hubbardston, Oxford, Taunton, Warren, Bolton, Hadley, Ware, Belchertown, Berkley, New Ashford, involved the construction of 15.5 miles at a cost of \$2,715,000.00.

DATA FOR ANNUAL REPORT, YEAR ENDING JUNE 30, 1954

(all caps) *General Statement*

SURVEYS, PLANS AND ESTIMATES

(all caps)  
During the year ending June 30, 1954 preliminary surveys, plans and estimates, and final surveys were made as follows:

For State Highway Construction

	<u>Cities</u>	<u>Towns</u>	<u>Miles</u>
Preliminary surveys	7	20	26.4
" plans	5	21	40.6
" estimates	8	36	56.3
Final surveys	6	23	56.7

For State Highway Reconstruction

	<u>Cities</u>	<u>Towns</u>	<u>Miles</u>
Preliminary surveys	7	35	40.1
" plans	3	34	32.5
" estimates	8	55	80.7
Final surveys	4	11	20.6

For Chapter 81

	<u>Cities</u>	<u>Towns</u>	<u>Miles</u>
Preliminary surveys	0	0	0
" plans	0	0	0
" estimates	0	135	6424.3

For Chapter 90, Section 34 Construction

	<u>Cities</u>	<u>Towns</u>	<u>Miles</u>
Preliminary surveys	16	140	113.4
" plans	21	159	127.4
" estimates	28	250	182.9
Final surveys	15	46	36.0

For Chapter 90, Section 34 Maintenance

	<u>Cities</u>	<u>Towns</u>	<u>Miles</u>
Preliminary surveys	0	0	0
" plans	0	0	0
" estimates	1	200	792.1

For Grade Crossing Elimination

Projects worked up during fiscal year July 1, 1953 to June 30, 1954:

In Cities 3 each 1.7 miles

In Towns 4 each 2.3 miles

E. G. C. studies made during the year July 1, 1953 to June 30, 1954:

Total Locations	12 each
Total Locations in Cities	3 each
Total Locations in Towns	9 each
Total Miles	6.8 Miles
Total Miles in Cities	1.7 Miles
Total Miles in Towns	5.1 Miles



In the last year we have continued to compile data for the Bureau of Public Roads listing all Railroad highway grade crossings and separations structures on the Federal-aid system in the State, giving information relative to the locations, daily traffic, number of lanes, number of high speed trains, number of tracks, present protection and hazard rating.

#### LAYOUTS

- 40.601 additional miles of state highway were laid out in 9 cities and 19 towns.
- 65 State highway alterations, not involving additional mileage, were made in 13 cities and 42 towns.
- 1 Decree was prepared and issued in one city in connection with a railroad crossing.
- 4 County layouts in 4 towns and 1 City layout and 6 town layouts were prepared.

The total length of State highways on July 1, 1954 was 2167.468 miles.

#### RECONNAISSANCE STUDIES

For State highways in 7 cities and 19 towns - 66.8 Miles.

#### JOHN F. FITZGERALD EXPRESSWAY

During the past fiscal year July 1, 1953 to June 30, 1954 the following engineering contracts were awarded:

1. Contract No. 5603 with C. A. Maguire & Assoc. and Fay, Spofford & Thorndike. This contract which was signed January 12, 1954 provided for engineering services for the J. F. Fitzgerald Expressway from Kneeland St. to the vicinity of Boston St., including the interchange or interchanges that might be required in the Southampton St.-Mass. Ave. area. Mileage of Survey, 2.8 mi. Mileage of studies for expressway, 3.0 mi. Mileage of studies for surface roads, 1.3 mi.

2. Contract No. 5812 with C. A. Maguire & Assoc. and Fay, Spofford & Thorndike. This contract which was signed May 12, 1954 provided for the design of a car pool garage to house State-owned vehicles and which was to be constructed at Nashua St. under the ramps of the Expressway.

During the past fiscal year numerous studies, cost estimates and reports were prepared on the proposed extension of the Expressway from Oliver St. to the vicinity of Mass. Ave. A city sponsored plan differed widely from the State's proposal and accordingly the firm of Parsons, Brinckerhoff, Hall and Macdonald were engaged to review the problem and come up with a recommendation. The State plan was recommended by the New York Consultants and it was subsequently approved by Governor Herter November 5, 1953. There were no construction contracts awarded during the past fiscal year in this section.

## ROADSIDE DEVELOPMENT

During the year 1953-1954 the Roadside Development Section has on many of our new highway locations preliminary surveys that were made to protect the existing growth and conserve top soil to be used in the construction of these projects.

Route 1, Danvers. In conjunction with the Mass. Federation of Garden Clubs, this division prepared plans and continued to add more plantings to the Blue Star Memorial Highway. Most of the plant material used was purchased by the garden clubs for this project. The design included center plot plantings to beautify this area and also to reduce headlight glare where it was determined important. The nursery men of Mass. contributed plant material that was planted on this project.

Plans and estimates have been completed by this division to do landscape work on Rte. 128 in the Towns of Newton, Weston and Wellesley, and also Springfield.

A landscaping project has just been completed on the Fall River Expressway in the Towns of Berkley and Freetown and more projects are contemplated in the near future on this Expressway.

The method of machine seeding has proven very satisfactory and economical.

The coordination of Landscape Design and Highway Design has made it possible to conserve our natural beauty and make available material for the landscape development of our highways. This is important where trees were encountered on the limited access highways.

Projects such as the Northeast Expressway, Southeast Expressway, Route 3 and the extension of Route 128 were studied and reviewed by the landscape division.

The landscaping of new highways during the past year presented many problems. One of the outstanding problems was the construction and grading of the slopes without the use of top soil. In the preliminary survey most projects were completed without the use of additional top soil.



1954 ANNUAL REPORTJULY 1, 1953 to JUNE 30, 1954GENERAL MAINTENANCE

General Maintenance as carried out by our maintenance forces includes repairs to road surfaces and bridge maintenance in a general category, the maintenance of shoulders and slopes, mowing grassed areas, clearing roadsides, cleaning ditches and drainage structures.

A surface treatment schedule of 252.30 miles of State Highway was approved.

Highway maintenance betterment and miscellaneous improvements consisted of shoulder hardening, grading for sidewalks, installation and alteration of traffic islands and drainage, replacing guard rail and curb installation, and, as in the past, this type of work was accomplished by both our maintenance forces and contract.

1954 ANNUAL REPORTJULY 1, 1953 to JUNE 30, 1954GENERAL MAINTENANCE

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STATE HIGHWAY MAINTENANCE MILEAGELISTED ACCORDING TO TYPES OF SURFACE - AS OF JANUARY 1, 1954

Cement Concrete	14.640
Reinforced Cement Concrete	155.189
Dual	36.334
Bituminous Macadam Asphalt	875.272
Bituminous Macadam Panolithic	35.259
Bituminous Macadam Tar	71.369
Bituminous Concrete Type A	105.357
Bituminous Concrete Type D	10.227
Bituminous Concrete Type I	656.627
Water Bound	53.734
Gravel	19.349
Road Mix Asphalt	50.427
Road Mix Tar	30.531
Brick	0.813
Miscellaneous	3.156
Total -	2,118.284 Miles

DISTRICT 3

(Cont'd)

<u>City or Town</u>	<u>Auto Route</u>	<u>Miles</u>
Grafton	140	0.70
Spencer	9	0.28
Webster	12	0.14
Dudley	12	0.56

DISTRICT 4

Dracut	110	1.38
Billerica	3 & 129	1.80

DISTRICT 5

Danvers	1	0.33
Haverhill	110	1.00
Andover	125	3.89
North Andover	125	0.73
Haverhill	125	0.83

DISTRICT 6

Norwood	1A	1.00
Taunton	138	1.40
Stoughton	138	0.16
Easton	138	1.04
North Attleboro	1	0.10
Walpole	1A	2.00
Dighton-Somerset	138	0.94
Easton	138	4.36
Raynham	44	2.89



DISTRICT 7

<u>City or Town</u>	<u>Auto Route</u>	<u>Miles</u>
Barnstable	6	2.10
Barnstable	6	0.87
Barnstable	M	0.82
Hingham	3A	0.25
Yarmouth	6	3.72
Total		<u>48.88 Miles</u>

ANNUAL REPORTBRIDGE MAINTENANCE1951 FISCAL YEAR

During the year, 38 new bridges were accepted for maintenance to bring the total number to 1342.

Force Account work has continued to accomplish a large portion of the projects carried out. Concrete repairs and painting of steel bridges accounted for about 55% of the activities of the District Bridge Maintenance crews.

Listed below are several repair and betterment projects for which contracts were awarded:

<u>Town</u>	<u>Description of Work</u>
Beverly-Salem	Repairing Draw Machinery.
Cambridge (Commercial Avenue)	Cleaning and Painting.
Gloucester	Mechanical Repairing and Alterations.
Hingham-Weymouth	Replace Guard Rail and relocating wood frame building.
Lawrence	Cleaning and Painting.
Rockland	Repairing retaining wall, roadway and sidewalks.
Westfield	Cleaning and Painting.

A tabulation of the openings of the 15 drawbridges controlled by the Department is shown below:

<u>Location</u>	<u>Bridge</u>	<u>Openings</u>
Beverly-Salem	Essex	341
Boston	Dorchester Avenue	670
Boston-Milton	Granite Avenue	411
Braintree	Beck River	(None)
Cambridge	Commercial Avenue	634
Cambridge	First Street	874
Fall River-Somerset	Brightman Street	584
Fall River-Somerset	Slade's Ferry	1,488
Gloucester	Blynman	6,489
Groveland-Haverhill	Groveland	49
Lynn-Saugus	Fox Hill	2,453
Marshfield-Scituate	North River	8
New Bedford	New Bedford	353
Newburyport-Salisbury	Merrimac River	94
Quincy-Weymouth	Fore River	361

\* Hand operated.



1954 ANNUAL REPORT  
SNOW AND ICE CONTROL

Snow removal on State Highways was carried out under authority of section 19, Chapter 81 of the General Laws, as amended.

During the 1954 fiscal year the Department plowed and sanded 2,118 miles of State Highways.

Snow removal on town roads was carried out under authority of Section 11, Chapter 54 of the General Laws and during the fiscal year the Department cooperated on 472 miles of highways. Under the act, the highways selected were plowed in cooperation with the towns and part of the cost was borne by local Agencies.

"1954 ANNUAL REPORTROADSIDE DEVELOPMENT

The Roadside Maintenance Program has expanded its normal annual operations under various types of work as well as establishing a program for the development and maintenance of small Roadside Rest Areas along all major State Highways in the Commonwealth.

These areas, equipped with picnic tables and trash barrels, are intended for use by the traveling public as convenient and safe stopping places along the highway where they may rest, and if they choose, enjoy a light lunch. Rest Areas are not provided with fireplaces, toilet facilities or drinking water as are our many State Parks.

Suppression of Dutch Elm Disease continues to be one of the most pressing problems of Roadside Maintenance. Contract application of 12% and 6% D.D.T. spray materials required 3,366 hours of Mist Blower spraying and 92 hours of Helicopter spraying. The Helicopter spraying which was first tried last year has proven very successful in accomplishing complete coverage in areas inaccessible to roadside mist blowers and on exceptionally tall stands of Elm Trees.

Removal of dead, dangerous and diseased trees by contract total 2,812, with many more, particularly those of an emergency nature being removed by State tree crews. The increase of trees removed over last years figure of 1,028 indicates the tremendous loss of Elm trees caused by the Dutch Elm Disease during the summer and fall of 1953.

Tree Trimming, Seeding and Fertilizing and Landscaping was carried on in various areas to continue normal maintenance and improvement of roadside areas.

Exerted efforts were applied to Selective Clearing and Trimming in wooded roadside areas to conserve valuable native plant growth, and on Sight Distance Clearance projects to maintain safe visibility on curves. Many Vista Clearing projects were accomplished at scenic areas where woodland growth had closed in the views.

Thirty three mowing contracts covering 229.33 miles of highway were awarded this year which is an increase of 152 miles of contract mowing over last years work.



1954 ANNUAL REPORT

BUILDINGS

The following buildings were constructed during the year under the supervision of the Maintenance Division.

- Rawley - Foreman's Garage*
- ~~Hanover - Foreman's Garage~~
- Orange - Foreman's Garage*
- Worcester - Highway Administration Bldg.

Several parcels of land were acquired during the year for Maintenance Operations and storage points.

1954 ANNUAL REPORTSTATE FOREST ROADS

Under the authority of Chapter 563, Acts of 1952, as amended by Chapter 489, Acts of 1953, the following State Forest Roads were improved under the supervision of the Maintenance Division.

DISTRICT 1

<u>STATE FOREST</u>	<u>TOWN</u>	<u>ROAD</u>	<u>MILES</u>
Savoy Mtn. State Forest	Florida	North Pond Road	0.280 Mi.

DISTRICT 2

Joseph A. Skinner State Park	Hadley & So. Hadley	Mountain Road	1.667 Mi.
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DISTRICT 3

Douglas State Forest	Douglas	Wallum Lake Road	0.927 Mi.
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DISTRICT 5

Harold Parker State Forest	No. Andover	Middleton Road	1.471 Mi.
Harold Parker State Forest	No. Andover	Harold Parker Road	1.087 Mi.
Harold Parker State Forest	Andover	Mill Street	0.572 Mi.
Total			6.004 Mi.



1954 ANNUAL REPORT

CAPITAL OUTLAY

No appropriation for capital purchases was made during 1954, but with \$714,186.31 earned through depreciation and \$643,068.87 carried over from 1953, the Department was able to continue to replace obsolete machinery and equipment.

## REGULATORY PERMITS

During the year ending June 30, 1954, 5,569 applications for permits were investigated and approved.

Of this number, 2,384 were for miscellaneous work within the limits of the State highway location and covered the construction of driveways and sidewalks, grading, installation of pole lines, underground conduits, cables, high tension lines, sewer, water and gas mains and connections, removal of trees, trimming of trees, etc.

There were 3,185 applications for permits for the movement over State highways of loads exceeding the legal limits in weight, length or width, consisting of oversized construction equipment, buildings, etc.

Approximately 35 applications were disapproved due to improper equipment or they would cause undue inconvenience to the general public.



WORCESTER AREA TORNADO

As an aftermath of the June 9, 1953 tornado in Worcester County, a Maintenance Contract was let for removing 298 trees and stumps, removing and resetting curb and patching sidewalks in the towns of Holden, Rutland, Petersham, Shrewsbury, Southborough and Northbridge.

The cost of the project was \$9,855.05.

In the spring of this year, the Maintenance Division planted 250 trees along the various routes in the towns affected, to replace those destroyed by the tornado at a cost of \$4,075.00.

CHIEF OF LABORATORY

DEPARTMENT SECRETARY

July 13, 56

ANNUAL REPORT JULY 1, 1953 to JUNE 30, 1954

(Caps) *Materials Testing Laboratory*

The Laboratory continued its research on the use of rubber additives in bituminous concrete.

Field tests were conducted on traffic paint in an effort to determine the relative reflectivity as actually observed at night by an automobile driver.

Preparations were made for moving into the new Laboratory at Wellesley, and the move was finally made on June 28 and 29.

The system of sampling and testing materials was streamlined for greater efficiency. Although the records indicate that only twelve thousand samples were tested as compared with fourteen thousand the previous year, a greater amount of material was brought under control due to the new system.

~~Respectfully submitted,~~

*A. V. Bratt*

A. V. Bratt  
~~Chief of Laboratory~~

~~10-11-56~~



## PETITIONS, MEETINGS AND HEARINGS

In addition to the regular weekly meetings of the Department throughout the year, numerous hearings and conferences have been held, including the annual hearings in the several counties in the Commonwealth for the open discussion of questions relating to the public ways, as required by section 1, chapter 81, General Laws, Ter. Ed.; in the matter of special regulations governing the speed of motor vehicles on certain highways; in the matter of laying out State highways in Barnstable, Yarmouth, Dennis, Needham, Milton, Worcester, Buckland, Shelburne, Boston, Quincy, Braintree, Andover, Ware, Canton, Dedham, Westwood, Southbridge, Salisbury, Chelsea, Everett, Athol, Orange, Mattapoisett, Fall River, Duxbury and Kingston; in the matter of the abolition of the railroad crossing at Lincoln Square in Worcester; in the matter of the alteration of railroad bridges on Route 128 in Needham, Spencer Road in Charlton, Ashfield Road in Buckland, Route 128 in Westwood, Water Street in Fitchburg, Main Street in Watertown, and Broadway and Revere Beach Parkway in Everett; and in the matter of the amendment of the rules and regulations to direct, govern and restrict the movements of vehicles on State highways.

Petitions were received and contracts signed during the year as follows:

	<u>Petitions</u>	<u>Contracts</u>
State highways	--	266
Work under section 34, chapter 90, General Laws	--	561
Work under section 26, chapter 81, General Laws	182	182
Miscellaneous	--	163
	182	1172

*Division*

The Right of Way Department has the responsibility of procuring all land rights in land, and of settling all land damages incidental to the construction and reconstruction of State Highways throughout the Commonwealth. In its appraisements the Division strives to reach fair market value of land and improvements taken, and severance or consequential damages incurred, if any, due to acquisition and construction in urban and rural communities. Appraisals concern properties of all types and include: commercial, industrial, residential, agricultural and water-front. Damages vary with the proportion of the taking—ranging from partial to complete, and often entail adjustment of private property to meet grade changes caused by construction. Negotiations are carried on directly with the property owners, their agents or attorneys; therefore, the Right of Way Negotiator and Appraiser creates good relations between the Department and the Public.

During the fiscal year there were eighty-nine (89) projects in fifty-eight (58) cities and towns involving eighteen hundred and three (1803) land damage cases. Sold at public auctions, sealed bids and private sales were one hundred (100) structures which were in the way of the proposed construction. Appraisals were made of all property affected either by a taking or changes in grade.

Agawam	Chelsea	Mattapoisett	Sturbridge
Andover	Chelmsford	Milton	Taunton
Barnstable	Dedham	Needham	Truro
Bedford	Dennis	New Ashford	Ware
Belchertown	Fitchburg	Newbury	Warren
Berkley	Gardner	Newton	Watertown
Beverly	Grafton	North Adams	West Bridgewater
Billerica	Hadley	Orleans	West Brookfield
Boston	Hancock	Peabody	Westminster
Brockton	Harwich	Provincetown	West Springfield
Brookfield	Lee	Quincy	Westwood
Buckland	Lenox	Salisbury	Worcester
Charlemont	Leominster	Shelburne	Wrentham
Charlton	Lynnfield	Southbridge	Yarmouth
	Manchester	Springfield	

Land damage allotments set up in this period amounted to \$17,618,800.00.

During this same period the Right of Way Division was called upon to make appraisals of land to be purchased for maintenance purposes such as sand bin and storage areas, land for the erection of maintenance garages for the storage of maintenance equipment.

In addition to the settlement of current land damage cases, preliminary studies were made in connection with proposed takings and construction involved on proposed new projects in the following cities and towns:



Adams	Dennis	Milton	Salisbury
Ashfield	Duxbury	Montague	Saugus
Barre	East Brookfield	Natick	Sheffield
Becket	Erving	Needham	Shelburne
Belmont	Everett	New Ashford	South Hadley
Boston	Fall River	Newton	Spencer
Bourne	Foxborough	North Adams	Springfield
Boxford	Gloucester	Northfield	Sturbridge
Brookline	Granville	Oak Bluffs	Tisbury
Buckland	Great Barrington	Oakham	Ware
Cambridge	Harwich	Orange	Wareham
Canton	Kingston	Palmer	Watertown
Charlemont	Lakeville	Peabody	Wayland
Chelmsford	Lexington	Phillipston	Westborough
Chelsea	Lynnfield	Pittfield	West Springfield
Chicopee	Malden	Plymouth	Westwood
Cummington	Mansfield	Quincy	Williamsburg
Dalton	Marion	Randolph	Williamstown
Danvers	Marshfield	Revere	Winchester
Dedham	Mattapoisett	Rowley	Worcester

In addition to release plan prepared showing takings on projects laid out during the fiscal year, there were about 200 drainage easement plans prepared on State Highway, Chapter 90 and Maintenance.

TRAFFIC ENGINEERING DIVISION

ANNUAL REPORT

JULY, 1953 TO JUNE, 1954

The activities of the Traffic Division have continued at an increased rate during the past year.

The chief reason for this increase was an expanded highway program with its plans for both immediate and future projects.

Activities now include the application of the latest traffic engineering principles on plans of proposed expressways, as well as other types of highways. Expressways now comprise a substantial portion of the mileage of new highway projects.

The various branches of the Division, including Highway Planning, Highway Design, and Traffic Control have been engaged in promoting traffic safety, not only on the new highways but also on the existing roads as well.

Methods used in all phases of traffic engineering have been improved so that they now include new features in design and traffic control for promoting safety and convenience.

The three comparatively recent branches in the Division's program, i.e., Two-Way Radio Communication, Street Lighting and Civil Defense have enlarged their scope of activity.

Details of the accomplishments in the several sections of the Division are described herewith:



### STATE HIGHWAY

The Division reviewed preliminary design plans for proposed State highway construction and reconstruction.

Highway projects in which field work was commenced during the fiscal year covered a total distance of 101.2 miles. Construction projects made up 59.6 miles and reconstruction projects 41.6 miles.

Recommendations on the subjects of design or traffic control were submitted to the Project Division after a review of the preliminary plans, wherever traffic flow safety and convenience could be promoted, or where unnecessary traffic congestion and delay could be prevented.

Further recommendations in redesign were submitted for the improvement of accident-prone locations.

### CHAPTER 90

Plans were reviewed from a traffic standpoint on Chapter 90 roads in a manner similar to that on the State highways.

There were approximately 160 miles of Chapter 90 roads which were started during the past fiscal year.

Wherever plans of these roads showed that traffic matters were involved, either in the field of design or traffic control, reports with recommendations were submitted by the Division.

### TRAFFIC SIGNS AND PAVEMENT MARKINGS

During the past year, 19,247 Traffic Signs were manufactured by or procured from outside agencies by the Traffic Division.

The combined output is broken down as follows:

Type	(1953-1954) Number
Directional	1,643
Rustic Directional	69
Route Markers	3,200
Civil Defense Route Markers	419
Regulatory	6,868
Warning	4,889
Warning Billboard	480
Miscellaneous	935
Miscellaneous Billboard	683
Town Line	61
Total	<u>19,247</u>

Many new techniques on signing were used on the various expressways which were opened during the year.

The use of new standards such as the Rustic Billboard Directional Signs, Exit Numbers and Cardinal Markers was continued. All three innovations have proven popular and it is felt that they have been a decisive factor in holding accidents to a minimum by affording proper directional information to the traveling public, thereby eliminating delay, confusion and congestion at intersecting points of travel.

Pavement markings were applied to the auto numbered route system and to Chapter 90 roads in cities and towns that submitted written requests. A total of 6,200 miles of line was applied during the season.

To furnish additional safety and assurance for night driving, 1,800 delineators were used.

The majority of these delineators were for the new expressways, with the exception of those used to replace damaged or stolen units.

The project of replacing the old wing-type Town Line signs with the colonial type is now approximately 90% complete.



### ACCIDENTS

The analysis of motor vehicle accidents was continued during the past fiscal year. As a result, many accident-prone locations on the State highways were studied and recommendations submitted for their correction.

Basic accident data was obtained from the operator's reports which are filed in the Registry of Motor Vehicles. With the change in the law on June 30, 1953, property damage accidents must now be reported in cases where the damage amounts to at least \$100.00 for one operator. A more complete record of the accident picture on the State highways is now obtained, since both injury and property damage cases are now reported.

Requests for accident analyses have been received from numerous sources. Accident reports were furnished to the Commissioners of the Department, the Chief Engineer, Project and District Engineers, Federal Government, Municipal Officials, National and Massachusetts Safety Councils and others.

Monthly accident reports which include detailed records on the State highways have been furnished to the Commissioner of Public Safety each month. Accident records have also been of assistance in the zoning of the State highways for speed.

A comparison of the accident record on the State highways in the last two fiscal years is as follows:

I. July 1, 1952 to June 30, 1953

<u>Total Accidents (Fatal &amp; Non-Fatal)</u>	<u>Total Injured</u>	<u>Fatal Accidents</u>	<u>Persons Killed</u>
7,035	10,256	177	201

II. July 1, 1953 to June 30, 1954

<u>Total Accidents</u>	<u>Total Injured</u>	<u>Fatal Accidents</u>	<u>Persons Killed</u>
10,176	12,428	167	188

This record shows an increase of 21.1% in the number of persons injured and a decrease of 6.5% in the fatalities.

DRIVEWAY PERMITS

During the fiscal year, a total of 668 commercial driveways were investigated, reviewed and submitted for approval to the Chief Engineer and the Board of Commissioners.

ADVICE TO CITIES AND TOWNS

As in past years, the Traffic Division continued its assistance to municipalities by giving advice regarding the proper procedures and methods to be followed in the local application of statutory traffic control allowances. These allowances apply to the use and operation of traffic signs, signals, markings and parking meters.

Our reports to municipalities covered most phases of Traffic Engineering, including island design, intersectional design, speed control, parking layouts and one-way systems. The Department recommendations were, in each instance, the result of involved comprehensive studies.



The past fiscal year produced no new traffic regulatory allowances and, therefore, there was no marked increase in permit issuances. However, the figures regarding permits do reflect steadily increasing traffic regulatory activity on the municipal level. This activity is most evident in installations and revisions of stop signs, parking meters and traffic control signals.

Other traffic permit activities remain relatively stable as evidenced from the following figures:

July 1, 1953 to June 30, 1954

	<u>New</u>	<u>Revised</u>	<u>Cancelled</u>
Signals	63	83	0
Warning Beacons	24	2	0
Isolated Stop Signs	384	22	2
Regulations	540	8	0
Figurines	4	0	0
Parking Meters	39	62	1
Traffic Signs	11	1	0
Safety Lanes	36	0	0
Street Markings	4	0	0
	<u>1,105</u>	<u>178</u>	<u>3</u>

SPEED CONTROL

Speed control operations were continued in 1954, as in previous years. Standard techniques were employed, including extensive use of the radar speed meters, trial runs, safe speed test runs on curves, and conferences with State police, local police, city and town officials, and officials of safety organizations.

The Department maintained full cooperation with the Registry of Motor Vehicles. Besides the regular work on State highway and on city and town streets, the Department and the Registry worked together on a special, combined safety and speed project during the 4th of July and the Labor Day week-ends.

Tabulated below are the various speed studies undertaken in 1954:

Speed control signs were posted on the following State highways:

<u>Route</u>	<u>Location</u>	<u>Mileage</u>
110	Salisbury-W. Boylston	38.1
114	Lawrence-Salem	12.7
125	No. Andover-revision	3.0
125	Andover-Haverhill	8.2
C-1	E. Boston Expressway	2.2
44-106	Fall River Expressway	11.8
2-Rel.	Harvard-Westminster	10.4
1-Rel.	Peabody-Boxford	6.0
202	Granby	5.4
2-Rel.	Harvard-Leominster	9.0
Misc.	Hingham-Hull	3.5
44-106	Fall River Expressway	8.0
128	Wenham-Gloucester	6.5
9	Dalton-Windsor	12.5
6	Orleans-Barnstable	21.6
Mid-Cape Revision	Mid-Cape Highway	12.6
		Total 171.5 miles

Field studies were completed on the following State highways and are scheduled to be posted in 1954:

<u>Route</u>	<u>Location</u>	<u>Mileage</u>
18	Weymouth-Freetown	18.0
140	Freetown-Taunton	10.0
9	Windsor-Worcester	46.0
28	Bourne-Orleans	60.4
		Total 134.4 miles

Field studies were in progress on the following State highways:

<u>Route</u>	<u>Location</u>	<u>Mileage</u>
12	Auburn-Dudley	12.0
146	Uxbridge-Worcester	18.0
		Total 30.0



The mileage of highways where speed zoning was completed or under study during the fiscal year totaled 335.9 miles.

Advice on speed control was given to the following towns:

Canton  
E. Longmeadow  
Everett  
Fall River  
Falmouth  
Lancaster  
Manchester  
Mansfield  
Tewksbury  
Shutesbury  
Natick  
Ware  
Westwood  
Winchester  
Plymouth

#### STREET LIGHTS

At present, there is no permissive legislation to install street lights, except at hazardous locations such as at overpasses, circles, intersections, etc. Consequently, all street lighting or safety lighting must be restricted to local areas.

Plans were made for the installation of street lighting on each section of the John F. Fitzgerald Expressway in Boston, prior to the opening of the Expressway to traffic.

In addition, designs were prepared for street light systems and are in the process of installation in connection with the construction of the Hunt's Falls Bridge in Lowell, the Agawam-Westfield River Bridge, the Agawam-Springfield South End Bridge, and in West Springfield at the North End Bridge.

### TRAFFIC CONTROL SIGNALS

During the fiscal year, the Department has continued the policy of installing and maintaining traffic control signals and flashing warning beacons.

The existing Bond Issue also furnished the Department with the means necessary to undertake studies and investigations at certain accident-prone locations on town and city roads constructed under the provisions of Chapter 90.

On the basis of factual data and where from a standpoint of public safety and convenience the need was apparent, steps were initiated and adequate traffic control signals or flashing warning beacons were installed by the Department on town and city roads. These signals and beacons were turned over to the local governments for ownership and maintenance where the population exceeded 15,000 people, otherwise the Department retained them and now takes care of their maintenance.

During the fiscal year, 26 signals were revised and modernized to meet with the increased changes in traffic patterns, while 26 new signal installations and 33 new flashing beacon installations were completed.

### TWO-WAY RADIO COMMUNICATION

During the year, the Department operated and maintained the State-wide two-way radio communication system, the installation of which was begun in 1951. This system, with some minor exceptions, is now complete.



All Districts now have permanent Base Stations and District wide coverage. All are equipped with emergency power generating units, a precaution which has more than proved its worth in providing uninterrupted State-wide communications during severe storms and local emergencies.

The Boston-Wachusett microwave repeater link has made possible State-wide dissemination of weather alerts and has made possible relay of executive decisions to the field, when required, with no delay.

The value of Radio to the Department can be demonstrated by its steadily increased use and improved performance in traffic signal maintenance and repair; snow removal, with particular emphasis on control of equipment and personnel; prompt and efficient control of water damage conditions; facilitation of field surveys; prompt relay of construction data and detail to the field; and improved public relations by prompt dispatch of information according to the situation.

The system has been coordinated with Civil Defense and has been participating in State and National exercises. It should be noted in this respect that the only immediate link with disaster headquarters at Worcester during the June, 1953, tornado was radio until telephone service could be restored. The first notice to Department personnel came via radio through liaison with the State police, and radio was of immeasurable value in the control of equipment in the subsequent cleanup of the devastated area.

The present system consists of 13 base or fixed stations and approximately 250 mobile units.

HIGHWAY PLANNING

INVENTORY

Road Life work was completed during the year toward providing a complete log of the Federal Aid Secondary Roads so that ready reference will be available showing existing conditions in the State.

TRAFFIC

Automatic Traffic Recorder work was operated during the year in strategic locations, with eight installations operating by electric eye beam devices and three treadle type on a 24-hour basis every day of the year to determine the major trends of travel in selected parts of the State. The Federal Bureau of Public Roads was kept provided with information every month of the rise or fall of traffic at these special locations.

Portable Traffic Recorder work was carried on throughout the year using one hundred and sixty battery operated sets to obtain

traffic volumes at locations on both Primary and Secondary roads to supplement the information obtained by the automatic recorders. This work was extended into the seven highway districts in order to cover the State fully. The information obtained was recorded at the main office at Boston and was used as basic data by our Project Division for preliminary designs of highways and submitted as accompanying data for Federal assistance on all Federal-aid Projects and also to provide information service to business and industry. These inquiries are frequent.

Traffic Map data were assembled from the field information of the automatic and portable counters and the results were applied to a new, revised 1933 map of the State showing all important roads with their volumes at critical points and at intersections. The maps will be available for Department and public use.

Loadometer study was conducted during the summer by weighing all trucks on ten locations throughout the State for a period of two weeks. An eight-man crew with portable scales worked eight-hour shifts to obtain the information to show trends in truck weights and volumes of commercial traffic by a twenty-four hour total at all study points. The results were later summarized in the main office and reports sent to the Bureau of Public Roads.

#### FISCAL

Local Road Finance study continued during the year and 351 cities and towns were compiled to show revenue by twenty-five



sources against disbursements by 24 items of street and highway charges. This study is conducted annually by all the states and provides the Department of Commerce through the Bureau of Public Roads with a complete financial picture on the city and town basis supplementing the fiscal state highway financial report.

Local Road Mileage work was continued during the year compiling all changes of type and additions of length as reported by the 351 cities and towns annually. The cities and towns were summarized by counties and the counties summarized for the entire State and the report submitted to the Bureau of Public Roads on a rural-urban separation basis as required.

Annual Statistics were compiled to show the source of State Income and Expenditures for highway purposes and related charges. This study is conducted annually by all the States and provides the Department of Commerce through the Bureau of Public Roads with a complete financial picture on the State basis. These statistics are gathered from the various State agencies on the following forms.

SB	State Bonds
SE	State Highway Expenditures
SI	State Highway Income - Nystis River Bridge Authority Financial Statement
NVR	Motor Vehicle Receipts
MVD	Motor Vehicle Disbursements
NCR	Motor Carrier Receipts
MCD	Motor Carrier Disbursements
GT	Gas Tax Receipts
GTD	Gas Tax Disbursements

#### SERVICES TO THE DEPARTMENT

These were continued throughout the year whereby the other divisions within the Department availed themselves of needed information

on matters of special concern, such as future conditions that would be expected under certain circumstances of construction changes and additions. All projects were based on the estimates of future traffic made by this office.

#### SERVICES TO THE BUREAU OF PUBLIC ROADS

This work was continued throughout the year and the estimating of future highway user trends in traffic and revenue was provided as requested.

#### SERVICES TO OUTSIDE AGENCIES

These were continued during the year whereby businesses and industries throughout the country were provided with information and data at their written requests concerning vital matters that can only be obtained from State Highway Planning organizations. A variety of requests were received and, in every case, we satisfied the needs of the inquirers.

#### MAPS

Sales of maps continued during the year. The extra detail shown on our General Highway Series is a feature that is especially desired by business concerns.

Traffic maps showing volumes throughout the State on numbered routes were in considerable demand by the public, particularly business people setting up new enterprises or planning to relocate their present one.

### ACCIDENT SURVEY

During the year a new type of survey was inaugurated in Massachusetts, under the sponsorship of the Federal Bureau of Public Roads and conducted by this Division and the Registry of Motor Vehicles. This State was selected by the Bureau of Public Roads because, in the opinion of the Bureau, the best available type of data existed here. The study involves the determination of all costs of every accident type that a motorist would encounter as the result of an accident on the highways. Interviewers will contact every person involved during the period of the study and obtain cost estimates of every item involved including lost time, medical bills, repairs and parts, towing service, etc.

### ORIGIN & DESTINATION STUDIES

Studies were conducted in Lawrence, Lowell, Haverhill, Fall River and New Bedford to determine the present pattern of travel within the larger communities in order to properly plan future improvements on the basis of desire lines indicated rather than the basis of volumes on the existing streets.

### CONCLUSION

The program of the Highway Planning section is based upon the requirements of the Federal Government and of the various Divisions of this Department.



CIVIL DEFENSE

Under Executive Order Number 3, issued on October 18, 1950, and Executive Order Number 10, issued January 31, 1951, of the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, the Department of Public Works was assigned the functions of Rescue, Transportation and Evacuation in the Massachusetts Civil Defense Agency. These orders have been further supplemented by the Massachusetts Civil Defense Director to include the functions of Engineering Services insofar as they relate to highways and bridges.

In addition, the Traffic Division of this Department has been designated as the coordinating agency for various State departments whose functions are related to the assigned activities of the Public Works Department. Also, the various Divisions of this Department have been further assigned specific activities in time of enemy attack or major disaster.

During the current fiscal year the activities of the Civil Defense Section of this Department are as follows:

## RESCUE

The two official Civil Defense Rescue Trucks were present at thirty-three Civil Defense functions and meetings throughout the State at the request of Local Civil Defense Directors and officials of the Civil Defense Agency. At these affairs demonstrations of the special rescue equipment were staged as well as instructions in the methods of obtaining such trucks and equipment under the Matching Funds program of the Federal Civil Defense Administration. As a result of these showings much interest was demonstrated and several of the larger communities have appropriated such Civil Defense funds to secure fully equipped Rescue Trucks, as in the case of Fall River, Pittsfield, Melrose, etc. Many Civil Defense Directors of smaller communities have inaugurated programs to purchase a sufficient amount of this equipment to be used in connection with local Civil Defense Rescue Trucks.

The Department of Public Works Civil Defense Staff at the main office and the coordinating staffs from the seven district offices have officiated in the six Command Post Exercises of this year's program. The main office staff operated from the Framingham Major Command Post and the nine Regional Headquarters Posts were covered by the district crews. The functions of Rescue, Transportation and Evacuation were satisfactorily coordinated at all of these exercises with the other State Department Civil Defense Divisions.

Civil Defense was brought to the attention of the general public quite prominently by the State-wide exhibitions of the Rescue Trucks

at the Department of Public Works exhibits at the Department's booths at the State Fairs. These fairs were held at Marshfield, Brockton, Middleboro, Topsfield and the Eastern States Exposition at Springfield.

#### TRANSPORTATION

The plans for providing the necessary trucks for the transportation of the \$5,000,000 medical supply project of the Federal Civil Defense Administration at the Gilbertville Depot have been completed. A schedule of definite truck assignments has been forwarded to the Federal Civil Defense Administration and also to the Massachusetts Civil Defense Director.

In addition a State-wide survey of medical supplies of the Massachusetts Civil Defense Agency currently stored at various State Hospitals throughout the Commonwealth has been completed. This survey was for the purpose of making definite assignments of local trucks immediately available to move these supplies quickly and efficiently in times of emergency or disaster. The local trucking firms in the vicinity of these hospitals have been contacted and definite promises secured from them that special trucks of the various companies would be made available when the situation demands quick action. A complete card index file, containing the name of the firm, information on the truck driver, etc., has been forwarded to the Massachusetts Civil Defense Headquarters and a copy retained for our files.

At various times during the current year, the Civil Defense Director has called upon the Department for equipment to transport



supplies, material, etc., to various points throughout the State. These requests have all been completed by the Department of Public Works to the satisfaction of the State Civil Defense Director.

#### EVACUATION

The Department's Civil Defense Section has worked throughout the year in close coordination with the Massachusetts Civil Defense Agency Services of Medical, Health, Welfare, Police and Fire. Surveys have been made to determine adequate locations for assembly areas, shelter areas, etc.; also, for the establishment of various evacuation centers that may be necessary to carry out the welfare evacuation program; and, for the identification of these areas and the determination of the best access road to them. In addition, studies are currently underway for suitable areas to establish centers for the stockpiling of machinery, equipment, supplies, etc., for road and bridge maintenance and repairs, as well as for fire and police services vehicles and crews, wrecking trucks and crews, etc.

A plan of coordination and mutual aid is being promulgated by the State Civil Defense and local Civil Defense Evacuation Officials based on the establishment of the areas noted above.

#### GENERAL

The Department's Traffic crews have maintained a constant inspection and replacement program of the route markers and signs on the Civil Defense Emergency Routes throughout the State.

Also, current studies are underway to bring the assignment of Traffic Control Stations in the cities and towns up to date to cover additions necessary to include the completed road construction projects now open to travel.

DIVISION OF WATERWAYS



The Department through its Division of Waterways has engaged during the year in a program for the improvement, development, maintenance and protection of rivers, harbors and shores throughout the commonwealth. This work consisted of public beach development, the construction of seawalls and repairs to existing seawalls, the construction of additional coastal protective structures to prevent further storm damage to our coastal properties, the dredging of boat harbors to provide additional facilities to the boating activities, both commercial and sport; the clearance of numerous small rivers and streams to prevent future damages during normal flood conditions, and the repairs and reconstruction of a number of town wharfs. This work was for the most part done under the authority of Chapter 91 of the General Laws and in many cases was financed in part by contributions from the counties, cities or towns in which the work was done.

RIVERS, HARBORS, TIDEWATERS AND  
FORESHORES, OUTSIDE OF BOSTON HARBOR

For the improvement, development, maintenance and protection of rivers and harbors, tidewaters and foreshores within the commonwealth as authorized by Section 11, Chapter 91, General Laws, and of great ponds, an appropriation of \$100,000 was made under chapter 489 of the acts of 1953.

"provided that all \_\_\_\_\_ expenditures for work undertaken hereunder \_\_\_\_\_ shall be upon condition that at least fifty per cent of the cost is covered by contributions from municipalities or other organizations and individuals, except that in the case of dredging channels for harbor improvements at least twenty-five per cent of the cost shall be so covered, \_\_\_\_\_ and provided further, that the Department of Public Works is hereby authorized to enter and construct on private land such works as may be necessary to secure and protect sea walls already built."

An appropriation of \$75,000 was made available by Chapter 489, acts of 1953, "for the maintenance of structures, and for repairing damages along the coast line or river banks of the commonwealth, and for the removal of wrecks and other obstructions from tidewaters and great ponds, and for the improvement, development, maintenance and protection of rivers, harbors, tidewaters and foreshores."

Chapter 660 of the acts of 1953, providing for a special capital outlay program for the commonwealth, made available the sum of \$1,300,000 for the improvement, development, maintenance and protection of rivers, harbors, tidewaters and shores \_\_\_\_\_ to be used in conjunction with any federal funds made available for the purpose, to be expended either with or without contributions.

An account of work done in the 1954 fiscal year for the improvement and development, maintenance and protection of rivers, harbors, tidewaters, foreshores and great ponds, follows:

ADAMS

Hearing was held on March 8, 1954, on petition of the selectmen, for clearing and dredging Miller Brook and dredging in Hoosic River.

Contract No. 1341, for channel improvement work in Hoosic River, awarded on October 23, 1953 to the East Side Construction Company, was completed November 17, 1953, at a contract cost of \$386.00.

ARLINGTON

Contract No. 1342, for the removal and disposal of concrete footings and wooden piles at Spy Pond, awarded on November 2, 1953 to Robert Mead, was completed December 18, 1953, at a contract cost of \$1,424.00.

A report of the Joint Board, consisting of the Metropolitan District Commission, the State Department of Public Health and the State Department of Public Works, was approved on November 30, 1953 and forwarded to the legislature, relative to further investigation and study of the sanitary condition of Spy Pond, under the provisions of chapter 24, resolves of 1953.

BARNSTABLE

Hearing was held on March 8, 1954, on petition of the selectmen, for protection work on Sea Street Beach; Halls Creek; Dowses Beach; Cotuit Outer Channel and Veterans Memorial Park.

Contract No. 1260, for repairing breakwater at Hyannisport, awarded on August 26, 1952 to the Bay State Dredging and Contracting Company, was completed on January 4, 1954, at a contract cost of \$115,140.00.

Contract No. 1318, for reconstruction and extension of the easterly jetty at the entrance to West Bay, awarded on June 8, 1953 to Turner and Breivogel, Inc., was completed on December 9, 1953, at a contract cost of \$35,045.00.



BARNSTABLE - continued

Contract No. 1331, for construction of a stone mound at Harbor View Road, awarded on August 24, 1953 to Fish and Fonseca, was completed on February 20, 1954, at a contract cost of \$10,800.00.

Contract No. 1335, for dredging in West Bay Entrance Channel and Great Bay Basin, awarded on October 14, 1953 to the New England Dredge and Dock Company, was completed on December 30, 1953, at a contract cost of \$53,293.30.

Contract No. 1356, for beach restoration at Kalmus Park, Hyannis, awarded on January 20, 1954 to the New England Dredge and Dock Company, was completed on March 17, 1954, at a contract cost of \$49,000.00.

Contract No. 1361, for construction of four timber finger piers at town wharf, Hyannis Harbor, was awarded on February 24, 1954 to Turner and Breivogel, Inc., and is still in progress.

Contract No. 1371, for harbor improvements at Maraspin Creek, was awarded on March 29, 1954 to the Gallo Construction Company, Inc., and is still in progress.

Contract No. 1377, for dredging of outer channel at Cotuit Bay Entrance, was awarded on April 15, 1954 to the Bay State Dredging and Contracting Company, and is still in progress.

Contract No. 1391, for harbor improvements, dredging outer channel, Hyannis Harbor, was awarded on May 24, 1954 to the Bay State Dredging and Contracting Company, and is still in progress.

BEDFORD

An agreement between the Department of Public Works and the United States Army was signed on February 24, 1954 relative to channel improvement in the Shawsheen River and the extension of runway at the Hanscom Air Force Base.

BEVERLY

Hearing was held on March 8, 1954, on petition of the Mayor, for repair of seawalls, construction of jetty and replacing of sand on the beach between Dane Street Beach and Independence Park.

BOURNE

Hearing was held on March 8, 1954, on petition of the Selectmen, for certain work at Monument Beach; Back River; Hospital Cove Channel; Gray Gables Cove; Pocasset Beach and Chapter 90 road leading to the State Pier.

Contract No. 1365, for making borings in Phinneys Harbor, awarded on March 16, 1954 to the American Drilling Company, Inc., was completed on April 3, 1954, at a contract cost of \$415.60.

BOXFORD

A special report to the General Court was approved on December 14, 1953, in which it is recommended that public necessity does not require the establishment of a right of way for public access to Four Mile Pond, and filed with the Clerk of the House of Representatives.

BREWSTER

Contract No. 1352, for shore protection, groin construction at Cape Cod Bay, awarded on December 30, 1953 to Joseph Perry, was completed on May 14, 1954, at a contract cost of \$15,182.15.

BUCKLAND

Hearing was held on March 8, 1954, on petition of Representative P. F. Whitmore, for inspection of wall running between Buckland and Shelburne.

CHATHAM

Hearing was held on March 8, 1954, on petition of the Selectmen, for work at Stage Harbor; Ministers Point; Aunt Lydias Cove; Ryders Cove and the west side of Aunt Lydias Cove.

CHESHIRE

Hearing was held on March 8, 1954, on petition of the Selectmen, for dredging in McDonald Brook.

On May 24, 1954, projects were approved in McDonald Brook, Cheshire, North River, Colrain and Mill River, Williamsburg, at a cost of \$11,200.00, the work to be carried out by the District Highway Maintenance forces.

#### CLARKSBURG

On November 30, 1953, a special report of the Department relative to an investigation and study of flood control in the Connecticut River area in the towns Hadley and Clarksburg, under chapter 69, resolves of 1953, was approved and filed with the Clerk of the House of Representatives.

#### COLRAIN

Hearing was held on March 8, 1954, on petition of the Selectmen and County Committee, for dredging in North River.

On May 24, 1954, projects in North River, Colrain, Mill River, Williamsburg and McDonald Brook, Cheshire, at a cost of \$11,200.00 were approved, the work to be carried out by the Highway Maintenance forces.

#### CONCORD

On November 9, 1953, an amendment to the rules and regulations governing the operation of motor boats on rivers and inland lakes in Concord, was approved by the Commissioners.

#### CONCORD RIVER

On January 25, 1954, an award of contract to Howard M. Turner was approved for the preparation of such hydraulic studies as necessary on plans and specifications for the control and improvement of the Sudbury and Concord Rivers.

#### CONNECTICUT RIVER

On November 30, 1953, a special report of the Department on the investigation and study of flood control in the Connecticut River area in Hadley and Clarksburg, under chapter 69, resolves of 1953, was approved and filed with the clerk of the House of Representatives.

#### CONWAY

Contract No.1320, for stream improvement in South River, awarded on June 1, 1953 to the B and M Construction Company, was completed on August 31, 1953, at a contract cost of \$6,633.25.

#### DARTMOUTH

Hearing was held on March 8, 1954, on petition of the Selectmen and other town officials, for work in Allens Pond, Padanaram Harbor and in Slocum River.



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DENNIS

Hearing was held on March 8, 1954, on petition of the Selectmen, for work at Inman Road, Oak Street Extension, East Dennis, between Sesuit Harbor and Sea Street, and Sesuit Harbor.

Contract No. 1281, for stone mound repairs at NobsCUSset, awarded on November 25, 1952 to Henry W. Merry, was completed on March 16, 1953, at a contract cost of \$3,795.50.

Contract No. 1287, for dredging in Bass River, Dennis-Yarmouth, awarded on December 23, 1952 to the Bay State Dredging and Contracting Company, was completed on September 10, 1953, at a contract cost of \$146,448.20.

Contract No. 1379, for construction of two stone groins in Nantucket Sound, was awarded on April 30, 1954 to Joseph Perry, and is still in progress.

Contract No. 1383, for construction of three groins, reconstruction of jetty and extension of jetty at Sesuit Harbor, was awarded on June 21, 1954 to Joseph Perry, and is still in progress.

DUXBURY

Contract No. 1339, for construction of seawall at Duxbury Beach, awarded on November 2, 1953 to the DelPrete Construction Company, Inc., was completed on June 15, 1954, at a contract cost of \$110,313.37.

EAST BOSTON

Contract No. 1197, for construction of pedestrian overpass near Bennington Street at Orient Heights, awarded on October 14, 1952 to the American Construction Company, Inc., was completed on August 7, 1953, at a contract cost of \$67,786.00.

Contract No. 1217, for construction of bathhouse at the Orient Heights Beach, awarded on January 6, 1953 to Rich Brothers Construction Company, Inc., was completed on February 26, 1954, at a contract cost of \$276,179.69.

Contract No. 1327, for dredging channel to the East Boston Yacht Club, awarded on July 16, 1953 to the North Atlantic Dredging Company, was completed on October 22, 1953, at a contract cost of \$40,591.34.

Contract No. 1333, for dredging at the Jeffries Point Yacht Club, awarded on

EAST BOSTON - continued

September 10, 1953 to the Bay State Dredging and Contracting Company, was completed on October 1, 1953, at a contract cost of \$4,640.00.

Contract No. 1368, for construction of chlorination building and services at Orient Heights Beach, was awarded on April 21, 1954 to J. J. Bonavire, Inc., and is still in progress.

The parapet wall at the East Boston Stadium was cleaned and painted by the Highway Bridge Maintenance Division, at a cost of \$500.00.

EASTHAM

Hearing was held on March 8, 1954, on petition of the Selectmen, for dredging in Rock Harbor.

Contract No. 1381, for excavation of basin at Rock Harbor, was awarded on May 17, 1954 to Turner and Breivogel, Inc., and is still in progress.

FAIRHAVEN

A special report of the Department on its investigation relative to improving Fairhaven Harbor, under the provisions of Chapter 71, Resolves 1953, was approved November 30, 1953 and filed with the clerk of the House of Representatives.

FALL RIVER

The eighth annual report of the Department to the General Court and to the Governor of the Commonwealth, under the provisions of Chapter 665, Acts 1945 and Chapter 308, Acts 1947, was approved December 30, 1953, on the improvement of facilities at the port of Fall River.

FALMOUTH

Hearing was held on March 8, 1954, on petition of the Selectmen, for work at Woods Hole Marine Biological Beach; Woods Hole, town landing and Eel Pond; Little Pond River, Maravista; Fresh River, town highway, Menauhant; Deacons Pond Harbor, Falmouth Harbor.

Contract No. 1292, for reconstruction of stone jetty at Waquoit Bay, awarded December 29, 1952 to Joseph Perry, was completed on October 17, 1953, at a contract cost of \$18,094.50.

FALMOUTH -- continued

Contract No. 1290, for construction of bulkhead and pier at Falmouth Inner Harbor, awarded December 29, 1952 to Turner and Braivogel, Inc., was completed on June 25, 1953, at a contract cost of \$39,112.08.

Contract No. 1297, for dredging basin in Green Pond, awarded December 30, 1952 to the New England Dredge and Dock Company, was completed on July 25, 1953, at a contract cost of \$60,685.52.

Contract No. 1315, for beach improvement at New Silver Beach, awarded on May 25, 1953, to Joseph Perry, was completed on August 15, 1953, at a contract cost of \$9,566.00.

Contract No. 1323, for reconstruction of jetty at Waquoit Bay, awarded on June 8, 1953 to Joseph Perry, was completed on October 8, 1953, at a contract cost of \$20,445.00.

FORT POINT CHANNEL

A special report of the Department on its investigation relative to Fort Point Channel and certain territories adjacent thereto and to certain proposed waterways projects, under the provisions of chapter 72, resolves 1953, was approved November 30, 1953, and filed with the clerk of the House of Representatives.

GLOUCESTER

Hearing was held on March 8, 1954, on petition of P. A. Polison, city engineer, relative to certain projects in Gloucester.

A special report of the Department on its investigation relative to the proposed pier extension at the State Fish Pier, under the provisions of chapter 81, resolves 1953, was approved November 30, 1953 and filed with the clerk of the House of Representatives.

Contract No. 1264, for sewer improvements, Stores Building, State Fish Pier, awarded on September 30, 1952 to Hagstrom Company, Inc., was completed on May 18, 1953, at a contract cost of \$40,979.28.

Contract No. 1329, for re-roofing the Cold Storage Building at the State Fish Pier, awarded on June 23, 1953 to Burgess and Blacker Company, was



GLOUCESTER - continued

completed on December 14, 1953, at a contract cost of \$14,440.00.

Contract No. 1330, for consultant services on roof repairs, Cold Storage Building, State Fish Pier, awarded on June 12, 1953 to Charles A. Earley, was completed on December 14, 1953, at a contract cost of \$922.00.

Contract No. 1390, for seawall reconstruction and drainage, Town Landing, near Harbor Cove, was awarded on June 2, 1954 to T. F. McCarthy, and is still in progress.

GRAPTON

Contract No. 1387, for work on Hovey Dam, Hovey Pond, was awarded on June 10, 1954 to the Gunite Restoration Company, Inc., and is still in progress.

GREAT PONDS

A special report of the Department on the surveys of Great Ponds, under the provisions of chapter 24, resolves 1950, and continued by chapter 28, resolves 1951, was approved December 30, 1953 and filed with the clerk of the House of Representatives.

Contract No. 1345, for survey of Great Ponds, was awarded October 28, 1953 to Peter K. Beshara, Jr. and is still in progress.

HADLEY

A special report of the Department relative to the investigation and study of flood control in Connecticut River area in the towns of Hadley and Clarksburg, under the provisions of chapter 69, resolves 1953, was approved November 30, 1953, and filed with the clerk of the House of Representatives.

HANOVER

Contract No. 1396, for construction of a fish ladder on Indian Head River, Hanover-Pembroke, was awarded June 14, 1954 to the DelPrete Construction Company, Inc., and is still in progress.

HARWICH

Hearing was held on March 8, 1954, on petition of the Selectmen, for work at Pleasant Road Beach; Earle Road Beach; Camp Grounds Beach; South Harwich Beach; Allens Harbor and Wyckmere Harbor.

HARWICH - continued

Contract No. 1325, for beach improvement work at Deep Hole Road, awarded on July 6, 1953 to F. V. Lawrence, Inc., was completed on October 3, 1953, at a contract cost of \$12,972.00.

Contract No. 1373, for shore protection, West Harwich Shore at Pleasant Road, awarded April 5, 1954 to F. V. Lawrence, Inc., was completed on June 29, 1954, at a contract cost of \$5,920.00.

Contract No. 1376, for dredging of outer harbor and channels, Witchmere Harbor, was awarded on April 15, 1954 to the Bay State Dredging and Contracting Company, and is still in progress.

HULL

Hearing was held on March 8, 1954, on petition of the Selectmen, for the construction of a concrete seawall at Point Allerton.

IPSWICH RIVER

Hearing was held on March 8, 1954, on petition of the Selectmen, for dredging in the Ipswich River.

Contract No. 1408, for consultant services on survey of stream clearance work in Peabody, was awarded to Dana F. Perkins and Sons, Inc. on June 8, 1954, and is still in progress.

KINGSTON

Contract No. 1357, for dredging anchorage basin at town landing, Jones River, awarded February 8, 1954 to the Bay State Dredging and Contracting Company, was completed on May 1, 1954, at a contract cost of \$29,868.66.

LOWELL

Hearing was held on March 8, 1954, on petition of the City Manager and another, for placing riprap at Merrimack River.

LYNN

Hearing was held on November 16, 1953 on petition of ten or more citizens representing that public necessity requires the establishment of a right of way to Flax Pond, and a special report of the Department to the General Court was approved December 14, 1953, recommending that the petition for a right of way to this pond

LYNN - continued

be denied.

The ordinance established by the Mayor and City Council regulating the use of motor boats on Flax Pond, under the provisions of chapter 131, sections 34 and 113 of the General Laws, was approved by the Department.

MARION

Hearing was held on March 8, 1954 on petition of the Selectmen and others, for work at Butlers Point; Silvershell Beach and Island Wharf.

Contract No. 1322, for beach improvements at Silvershell Beach and Butlers Point, awarded June 8, 1953 to Joseph Perry, was completed on July 25, 1953, at a contract cost of \$12,594.75.

MARSHFIELD

Hearing was held on March 8, 1954, on petition of the Selectmen, for placing riprap and sand fill at Ocean Bluff and Brant Rock.

Hearing was held on November 30, 1953, on petition of the Selectmen, for placing rock and fill on the front of Brant Rock breakwater; repair of riprap at Ocean Bluff; dredging in Green Harbor and dredging in South River.

Contract No. 1324, for excavation of South River Basin, awarded June 9, 1953 to Bradford Weston, Inc., was completed on August 11, 1953, at a contract cost of \$21,000.00.

Contract No. 1344, for seawall repairs and placing steel sheeting north of Brant Rock, awarded November 12, 1953 to Joseph Perry, was completed on December 15, 1953, at a contract cost of \$3,850.00.

Contract No. 1350, for shore restoration north of Brant Rock, awarded January 4, 1954 to Ernest Anastasio, was completed March 31, 1954, at a contract cost of \$9,380.00.

Contract No. 1354, for dredging channel and basin, Green Harbor, awarded February 8, 1954 to the North Atlantic Dredging Company, was completed on April 21, 1954, at a contract cost of \$60,508.80.



MARSHFIELD - continued

Contract No. 1358, for dredging in three locations in South River, awarded February 8, 1954 to the North Atlantic Dredging Company, was completed on March 17, 1954, at a contract cost of \$31,920.00.

Contract No. 1388, for shore protection, riprap revetment, Ocean Bluffs, was awarded June 8, 1954 to Bradford Weston, Inc., and is still in progress.

MASHPEE

Hearing was held on March 8, 1954, on petition of the Selectmen and other town officials, for the construction of two jetties at Popponesset Beach.

Contract No. 1351, for construction of two stone groins at Popponesset Beach, awarded December 30, 1953 to Joseph Perry, was completed on April 9, 1954, at a contract cost of \$6,906.25.

MATTAPOISETT

Hearing was held on March 8, 1954, on petition of the Selectmen and other town officials, for the construction of channel and mooring basin, placing of riprap revetment and the construction of a bathing beach at Bel Pond.

Contract No. 1319, for wharf repairs at Mattapoisett Harbor, awarded June 8, 1953 to Joseph Perry, was completed on November 13, 1953, at a contract cost of \$23,862.50.

MIDDLEBORO

Hearing was held on March 8, 1954, on petition of the Selectmen, for dam reconstruction in Nemasket River.

MIDDLEFIELD

Hearing was held on March 8, 1954, on petition of the Selectmen, for dam construction at Old Reservoir.

MILFORD

Contract No. 1248, for channel improvement in the Charles River, awarded July 10, 1952 to Colonna Brothers, Inc., was completed on December 16, 1953, at a contract cost of \$30,371.72.

MILTON

Hearing was held on March 8, 1954, on petition of the Selectmen, for stream clearance work in Pine Tree Brook.

Contract No. 1374, for stream clearance work and construction of bridge over Pine Tree Brook, was awarded on June 2, 1954 to Earl Brown, Inc., and is still in progress.

Contract No. 1395, for river improvements, channel excavation and slope paving in Pine Tree Brook, was awarded on June 14, 1954 to John J. Botti, and is still in progress.

NANTUCKET

Contract No. 1239, for dredging a mooring basin in Nantucket Harbor and removing shoals from approach channel north of Brant Point, awarded August 29, 1952 to the North Atlantic Dredging Company, was completed July 11, 1953 at a contract cost of \$54,900.00.

NEW BEDFORD

Hearing was held on March 8, 1954 on petition of city and state officials, for bathing beaches and shore protection work.

Contract No. 1343, for consultant services on Immigration Shed, State Pier, awarded October 15, 1953 to Ganteaume and McMullen, was completed November 27, 1953, at a contract cost of \$2,000.00.

Contract No. 1347, for water pipe repairs at the State Pier, awarded November 17, 1953 to Jeremiah Coholan, was completed February 26, 1954, at a contract cost of \$5,975.00.

Contract No. 1397, for removal of wreck from Clarks Cove, was awarded June 2, 1954 to Joseph Perry and is still in progress.

NEW BRAintree

Hearing was held on March 8, 1954, on petition of the Selectmen and others for stream clearance in Ware River and Winemissett Brook.

NEWBURYPORT

Contract No. 1321, for sand fill for shore improvements, Plum Island, awarded May 7, 1953 to the North Atlantic Dredging Company, was completed July 30, 1953, at a contract cost of \$489,200.00.

NEWTON-WELLESLEY

Contract No. 1360, for repairs to dam, Charles River at Washington Street, was awarded April 5, 1954 to H. Solimando, and is still in progress.

OAK BLUFFS

Hearing was held on March 8, 1954 on petition of the Selectmen, for construction of bulkhead and dredging in Oak Bluffs Harbor and the construction of a stone mound at East Chop.

Contract No. 1338, for shore protection, stone mound, at Vineyard Highlands, was awarded October 26, 1953 to Turner and Breivogel, Inc., and completed on January 21, 1954, at a contract cost of \$14,270.76.

Contract No. 1375, for construction of stone mound and stone groins in Nantucket Sound, was awarded April 12, 1954 to Turner and Breivogel, Inc., and is still in progress.

Contract No. 1405, for consultant services on bulkhead and pier construction and dredging in Oak Bluffs Harbor, was awarded June 9, 1954 to the Crandall Engineers, Inc., and is still in progress.

ORGANIZATION

Fred B. Dole was appointed on July 28, 1953 by the Governor and Council as Associate Commissioner, in place of Benjamin H. Grout who resigned.

Harry E. Fraser was appointed as Director of Public Beaches, effective October 1, 1953, under the provisions of chapter 666, acts of 1953.

Lewis J. Fritz was appointed as Associate Commissioner on January 28, 1954, replacing Francis V. Matera.

ORLEANS

Contract No. 1303, for construction of retaining wall at Rock Harbor, awarded February 3, 1953 to the Gallo Construction Company, Inc., was completed on September 28, 1953, at a contract cost of \$36,396.50.



ORLEANS - continued

Hearing was held on March 8, 1954 on petition of the Selectmen, for dredging and constructing retaining wall at Rock Harbor Creek.

Contract No. 1382, for construction of timber bulkhead and to excavate in Rock Harbor, was awarded to Turner and Breivogel, Inc., on May 17, 1954, and is still in progress.

PEABODY

A hearing was held on June 9, 1954 at 7 o'clock in the evening in the City Council Chamber on stream clearance work.

Contract No. 11408, for consultant services on survey on stream clearance work in Peabody, awarded to Dana F. Perkins and Sons, Inc., on June 8, 1954, is still in progress.

PEMROKE

Hearing was held on March 8, 1954 on petition of the Selectmen and others, for the construction of fish ladder in Indian Head River.

On November 30, 1953 a report of the Joint Board, consisting of the Department of Public Works and the Department of Public Health, was approved by the Commissioners relative to improving conditions at Furnace Pond, under the provisions of Chapter 39 of the Resolves of 1953.

Rules and regulations governing the use of lakes and ponds, submitted by the Selectmen under the provisions of Chapter 216 of the Acts of 1954, were approved by the Commissioners on April 21, 1954.

Contract No. 1396, for construction of fish ladder on Indian Head River, was awarded to the Del Prete Construction Company, Inc., on June 14, 1954, and is still in progress.

PITTSFIELD

Hearing was held on March 15, 1954 on the petition of ten or more citizens of the Commonwealth representing that public necessity requires the establishment of a right of way to Goodrich Pond.

PLYMOUTH

Hearing was held on August 10, 1953 on the petition of ten or more citizens of the Commonwealth representing that public necessity requires the establishment of a right of way to Gallows Pond.

Hearing was held on March 8, 1954 on petition of the Selectmen, for work at Long Beach, Manomet Bluffs, East White Horse Beach, Warrens Cove, Harlows Landing and High Cliff.

A special report of the Department to the General Court was approved December 14, 1953 recommending that public necessity does not require the establishment of a right of way for public access to Gallows Pond, and filed with the clerk of the House of Representatives.

On June 23, 1954 certain revisions were recommended in the rules and regulations governing the use of the Plymouth State Pier.

Contract No. 1225 was completed as of June 20, 1953 at a contract cost of \$141,516.02, for construction of new timber pier in Plymouth by the Bay State Dredging and Contracting Company.

Contract No. 1326, for making repairs to the Plymouth Rock Canopy, awarded June 23, 1953 to Carmine Antonellis, was completed on September 30, 1953 at a contract cost of \$4,150.25.

Contract No. 1402, for shore protection work, concrete and stone seawall at the State Pier, was awarded on June 18, 1954 to F. V. Lawrence, Inc., and is still in progress.

PONDS AND LAKES

A special report of the Department on its investigation relative to certain ponds and lakes, under the provisions of chapter 83 of the resolves of 1953 was approved this day by the Commissioners and filed with the clerk of the House of Representatives.

PROVINCETOWN

Contract No. 1212, for construction of the bathhouse on Province Lands, was completed by M. F. Roach Company on July 27, 1953, at a contract cost of \$111,930.46.

Contract No. 1227, for consulting services on bathhouse construction at Province Lands, was completed by Mario Caputo on July 27, 1953, at a contract cost of \$2,518.44.

Contract No. 1284, for water supply system at bathhouse on Province Lands, was completed August 31, 1953, by Cannons, Inc., at a contract cost of \$10,797.15.

Contract No. 1332, for water treatment of bathhouse on Province Lands, was awarded on February 8, 1954 to Frank Joy; is still in progress.

The winter protection for the bathhouse at Province Lands was carried out by the Highway Bridge Maintenance forces.

ROCHESTER

A special report of the Department to the General Court was approved December 14, 1953 recommending that public necessity requires the establishment of a right of way to Snow Pond, and filed with the clerk of the House of Representatives.

On July 13, 1953 a release NOY(R)-35961 between the Commonwealth and the United States Navy was approved relative to use of a portion of Snipatuit Pond.

SALEM

Hearing was held on March 8, 1954 on the petition of the Mayor, for dredging of channel and basin at Palmers Cove and dredging of channel and basin in the vicinity of Dions property.

Contract No. 1393, for dredging at Palmer Cove and Dions Boatyard, Salem Harbor, was awarded May 27, 1954 to the Bay State Dredging and Contracting Company and is still in progress.

SANDWICH

Hearing was held on March 8, 1954 on the petition of the Selectmen for jetty construction wherever the Department deems it suitable.



SANDWICH - continued

Contract No. 1353, for shore protection, groin construction, Town Neck Road, awarded January 11, 1954 to Fish and Fonseca, was completed on April 30, 1954, at a contract cost of \$8,600.00.

SAUGUS

Hearing was held on March 8, 1954, on the petition of the Town Manager, Selectmen and others, for the relocation of Shutes Brook at the railroad crossing and Central Street.

Contract No. 1300, for dredging channel and basin, Saugus River, awarded January 2, 1953 to the Bay State Dredging and Contracting Company, was completed on December 21, 1953, at a contract cost of \$201,990.00.

Contract No. 1364, for river improvements in Shute Brook and Saugus River, awarded March 15, 1954 to Frank DiCenso, was completed on June 16, 1954, at a contract cost of \$22,273.84.

Contract No. 1409, for consultant services on conduit construction in Shute Brook, was awarded on June 28, 1954, to Charles T. Main, Inc., and is still in progress.

SCITUATE

Hearing was held on November 30, 1953, on petition of the Selectmen for 14 different projects in Scituate; North Scituate Beach; Fourth Cliff; Town pier to Dyer property; Scituate Yacht Club; Surfside Road; Peggotty Beach; Minot; Shore Acres Beach; Sand Hills Beach; Scituate Harbor; First Cliff; Third Cliff; Second Cliff.

Hearing was held on March 8, 1954, on petition of the Selectmen and other town officials, for work at Shore Acres Beach; Surfside; Sand Hills Beach; First Cliff; Second Cliff; Second Cliff riprap; Third Cliff; Scituate Harbor.

A report of the Joint Board, consisting of the Department of Public Works and the Department of Public Health and the State Reclamation Board relative to the improvement of conditions at Musquashiat Pond, under the provisions of chapter 40, resolves of 1953, was approved and filed with the clerk of the House of Representatives on November 30, 1953.

Contract No. 1276, for dredging two areas in Scituate Harbor, awarded on November 4, 1952 to the Bay State Dredging and Contracting Company, was completed on August 8, 1953, at a contract cost of \$288,740.00.

SCITUATE - continued

Contract No. 1324, for excavation of South River Basin, Marshfield-Scituate, awarded on June 9, 1953 to Bradford Weston, Inc., was completed August 11, 1953, at a contract cost of \$21,000.00.

Contract No. 1348, for relocating and repairing sections of seawall at Sand Hills, awarded November 30, 1953 to Ernest Anastasio was completed March 1, 1954, at a contract cost of \$7,633.00.

Contract No. 1358, for dredging in three locations in South River, Marshfield-Scituate, awarded on February 8, 1954 to the North Atlantic Dredging Company, was completed March 17, 1954, at a contract cost of \$31,920.00.

Contract No. 1362, for dredging at two locations in Scituate Harbor, awarded on February 24, 1954 to the Bay State Dredging and Contracting Company, is still in progress.

Contract No. 1366, for construction of stone mound and shore protection, Fourth Cliff, awarded on March 15, 1954 to Bradford Weston, Inc., is still in progress.

Contract No. 1367, for shore protection, seawall and bank reconstruction at Glades Road, awarded March 29, 1954 to the DelPrete Construction Company, Inc., is still in progress.

Contract No. 1384, for shore protection projects and stone mound at Scituate Harbor and placing riprap at Second and Third Cliffs, was awarded on May 17, 1954 to Bradford Weston, Inc., and is still in progress.

SOUTHERIDGE

Contract No. 1340, for construction of drainage conduit, Henry Street Field, was awarded November 2, 1953 to Giesla Brothers, Inc., and completed on February 1, 1954 at a contract cost of \$14,549.60.

SPRINGFIELD

Hearing was held on March 8, 1954 on petition of the city officials, for the removal of trees and riprapping the earth dike on east side of Connecticut River, between North End bridge and Chicopee city line.

The Commissioners on April 5, 1954 approved three tracings showing rights of way to Five Mile Pond, Lake Lorraine and Loon Pond, in the city of Springfield, which were submitted by the Hampden County Commissioners.

STOCKBRIDGE

Hearing was held on March 8, 1954 on petition of the Selectmen, for work on Housatonic River, in Furnace district and Golf Club property.

The District Highway Division survey group made a survey on reconstruction of Shaker Dam, West Stockbridge and bank revetment work along Housatonic River.

Contract No. 1400, for stone revetment work along Housatonic River, was awarded June 21, 1954 to the B and M Construction Company, and is still in progress.

SUDBURY RIVER

On January 25, 1954 approval was given for award of contract to Howard M. Turner in an amount not to exceed \$5,000 for preparation of hydraulic studies as necessary relative to plans and specifications for control and improvement of Sudbury and Concord Rivers.

TISBURY

Hearing was held on March 8, 1954 on petition of the Selectmen, for construction of a jetty at Tashmoo Shore and jetty repairs at West Chop.

UNITED STATES GEOLOGICAL SURVEY

An agreement was approved on November 9, 1953 covering stream gauging work for the period July 1, 1953 through June 30, 1954, to be carried out by the Department and the Water Resources Branch of the Geological Survey, at an expenditure of \$15,000 by each party.



#### WAREHAM

Contract No. 1293, for construction of stone jetty at Little Harbor, Wareham, awarded December 29, 1952 to the Galle Construction Company, Inc., was completed on July 24, 1953, at a contract cost of \$9,525.80.

#### WATERWAYS PROJECTS

Contract No. 1394, for consultant services on certain Waterways projects, awarded to Duffill Associates, Inc., was completed on June 24, 1953, at a contract cost of \$6,176.78.

Contract No. 1369, for consultant services on certain Waterways projects, awarded March 10, 1954 to Cleverdon, Varney and Pike, was completed on May 10, 1954, at a contract cost of \$2,622.41.

Contract No. 1370, for consultant services on certain Waterways projects, awarded March 10, 1954 to Cleverdon, Varney and Pike, was completed on May 5, 1954, at a contract cost of \$609.84.

Contract No. 1389, for consultant services on certain Waterways projects, was awarded on April 29, 1954 to Cleverdon, Varney and Pike, and is still in progress.

#### WELLFLEET

Contract No. 1372, for shore protection, construction of stone revetment, Wellfleet Harbor, awarded April 5, 1954 to Turner and Breivogel, Inc., was completed on May 26, 1954, at a contract cost of \$5,553.45.

Contract No. 1313, for construction of timber retaining wall with earth fill and excavation in Wellfleet Harbor, awarded June 1, 1953 to the J. F. White Contracting Company, was completed on February 2, 1954, at a contract cost of \$76,899.70.

#### WESTBORO

Hearing was held on March 8, 1954, on petition of the Selectmen and other town officials, for dredging in Assabet River and in Cedar Swamp.

Contract No. 1378, for consultant services on survey of Assabet River, awarded March 29, 1954 to the MacCarthy Engineering Service, Inc., is still in progress.

WESTFIELD

Contract No. 1349, for making borings for the pumping station and outlet pipe, awarded December 16, 1953 to Porter and Desmond, was completed on January 29, 1954, at a contract cost of \$728.25.

Contract No. 1346, for construction of flood control pumping station, was awarded May 3, 1954 to R. Zoppo Company, Inc., and is still in progress.

WESTPORT

Hearing was held on March 8, 1954, on petition of the Selectmen and others, for dredging at dock in Westport River and dredging the Westport River channel.

Contract No. 1365, for consultant services on Wewasantic River and Westport Harbor surveys, was awarded April 12, 1954 to Walter E. Rowley, and is still in progress.

WEST STOCKBRIDGE

Hearing was held on March 8, 1954, on petition of the Selectmen, for reconstruction of the Shaker Mill Dam in Williams River.

The Highway Division survey group made surveys on reconstruction of Shaker Dam and bank revetment work along Housatonic River.

On May 3, 1954 a lump sum contract was given to Howard M. Turner, consulting engineer, in an amount of \$2,000.00 for preparation of plans and specifications for the reconstruction of Shaker Mill Dam on Williams River.

WEYMOUTH

Rules and regulations governing the use of motor boats on all ponds in this town as submitted by the Selectmen, were approved by the Commissioners, under the provisions of chapter 102, General Laws, as established by chapter 678, Acts 1950.

WILLIAMSBURG

Hearing was held on March 8, 1954, on petition of the Selectmen, for channel excavation in Mill River.

On May 24, 1954, projects for stream clearance work in Mill River, Williamsburg; McDonald Brook, Cheshire; and North River, Colrain, at an estimated cost of \$11,200.00 were carried out by the District Highway Maintenance Forces.

WILLIAMSTOWN

Hearing was held on March 8, 1954, on petition of the Selectmen, for stream clearance and riprap in Doctors Brook and Broad Brook.

WILLIAMSTOWN - continued

Contract No. 1314, for the relocation of section of channel of Green River, awarded May 25, 1953 to Americo Bruschi and Angelo Bruschi, was completed August 13, 1953, at a contract cost of \$20,195.00.

WINCHESTER

Hearing was held on March 8, 1954 on petition of the Chairman of the Horn Pond Committee relative to improvements in this brook.

WINTHROP

Hearing was given on November 30, 1953 on petition of the Selectmen for the reconstruction of existing seawall at Point Shirley and construction of such new seawalls as are necessary along the ocean front at Point Shirley.

Hearing was held on March 8, 1954 on petition of the Selectmen, for riprap work at Short Beach.

Contract No. 1336, for seawall reconstruction at Point Shirley, awarded October 14, 1953 to John J. Betti, was completed December 29, 1953, at a contract cost of \$6,840.00.

Contract No. 1359, for shore protection, concrete seawall reconstruction, southerly of Otis Street, Point Shirley, awarded February 15, 1954 to the Hen-Ray Construction Company, Inc., which was later assigned to the McKie Lighter Company, was completed June 30, 1954 at a contract cost of \$16,477.00.

WOBURN

Hearing was held on March 8, 1954 on petition of the Mayor and other city officials for the cleaning of canal and lowering culverts in Middlesex Canal.

YARMOUTH

Hearing was held on March 8, 1954 on petition of the Selectmen for dredging and grading at Yarmouthport Pier; sand filling at Town Beach; Jetty extension at Parkers River.

Contract No. 1337, for beach restoration and dredging in Parkers River, awarded October 19, 1953 to John J. Gallo, was completed February 19, 1954, at a contract cost of \$32,800.00.



YARMOUTH -- continued

Contract No. 1287, for dredging in Bass River, Dennis-Yarmouth, awarded December 23, 1952 to the Bay State Dredging and Contracting Company, was completed September 10, 1953, at a contract cost of \$146,448.20.

Contract No. 1392, for beach improvement at Yarmouth Town Beach, was awarded June 2, 1954 to Joseph Perry, and is still in progress.

## GREAT PONDS

Jurisdiction of great ponds belonging to the commonwealth was given to the board of harbor and land commissioners by chapter 318 of the acts of 1888. This act pertains to ponds of more than ten acres in area in their natural state. Authority to sell or convey or lease, subject to the approval of the Governor and Council, any of the islands owned by the state in great ponds was given later by chapter 379 of the acts of 1904, now section 2 of chapter 91 of the general laws.

During the year the department has considered matters relating to:

Alum Pond, Sturbridge  
Archers Pond, Wrentham  
Bailey Pond, Amesbury  
Bare Hill Pond, Harvard  
Bartletts Pond, Plymouth  
Blackmores Pond, Wareham  
Cedar Pond, Boxford  
Chargoggagoggmanchauggagoggchaubunagungamaugg Lake,  
(Webster Lake) Webster  
Congamond Lakes, Southwick  
Edgartown Great Pond, Edgartown  
Five Mile Pond, Springfield  
Fosters Pond, Andover  
Fort Pond, Littleton  
Furnace Pond, Pembroke  
Gallows Pond, Plymouth  
Goodrich Pond, Pittsfield  
Grass Pond, Harwich  
Hammond Pond, Newton  
Hoods Pond, Ipswich and Topsfield  
Indian Head Pond, Hanson  
Kings Pond, Plymouth  
Lead Mine Pond, Sturbridge  
Little Alum Pond, Brimfield  
Little Island Pond, Plymouth  
Little Sandy Pond, Plymouth  
Long Pond, Barnstable  
Loon Pond, Lakeville  
Loon Pond, Springfield  
Lorraine Lake, Springfield  
Lovells Pond, Barnstable  
Lowe Pond, Boxford  
Massapoag Lake, Sharon  
Monponsett Pond, Hanson and Halifax  
Morses Pond, Natick  
Muddy Pond, Kingston  
Mystic Pond, Methuen  
Nine Mile Pond, Wilbraham  
Nippesicket Pond, Bridgewater  
None Such Pond, Natick

GREAT PONDS - continued

North Pond, Hopkinton  
Norwich Lake, Huntington  
Nuttings Lake, Billerica  
Palmers Pond, Swampscott  
Pearl Lake, Wrentham  
Pomps Pond, Andover  
Prankers Pond, Saugus  
Quaboag Pond, Brookfield and East Brookfield  
Quannapowitt Lake, Wakefield  
Quinsigamond Lake, Grafton, Shrewsbury and Worcester  
Round Pond, Tewksbury  
Schoolhouse Pond, Chatham  
Shallow Pond, Barnstable  
South End Pond, Millis  
Spoffords Pond, Boxford  
Spy Pond, Arlington  
Stetsons Pond, Pembroke  
Stevens Pond, Boxford  
Vaughans Pond, Carver  
Walkers Pond, Brewster  
White Island Pond, Wareham and Plymouth  
Whitmans Pond, Weymouth  
Winning Pond, Billerica  
Winthrop Lake, Holliston



CONSERVING AND EQUALIZING THE FLOW OF WATER  
IN RIVERS AND STREAMS

By chapter 359, acts of 1909, chapter 564, acts of 1912 and chapter 84, resolves of 1917, cooperation was established between the commonwealth and the water resources board of the United States Geological Survey, so that results of work relating to the gauging of streams within the commonwealth and other work of a similar character carried on by the said survey have been obtained for use by the department and are available for other departments of the commonwealth.

An amount of \$15,000.00 was allotted for certain investigations.

#### LICENSES AND PERMITS

During the period from July 1, 1953 to June 30, 1954 the department has granted 85 licenses for work to be done in tidewater, great ponds, Connecticut River and Merrimack River, and in rivers and streams under the provisions of section 6 of chapter 513 of the acts of 1939. The department has also granted 55 permits for miscellaneous purposes and approved 24 permits issued by municipal authorities for the construction and maintenance of fish weirs in tidewater.

CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
PUBLIC WORKS, AND IN FORCE DURING THE YEAR ENDING JUNE 30, 1954.

<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1121	Furnishing and spreading sand fill on southerly shore of Orient Heights Beach, East Boston.	Charles Callahan Co.	Aug 1 1950	Completed July 31 1952	\$189,026.88
1196	Consultant services on construction of bathhouse and supervision of construction of an overpass at Orient Heights Beach, East Boston.	John Guarino	Jan 22 1952	Completed Feb 26 1954	21,074.54
1197	Construction of pedestrian overpass near Bennington Street at Orient Heights Beach, East Boston.	American Construction Company, Inc.	Oct 14 1952	Completed Aug 7 1953	67,786.00
1212	Construction of bathhouse on Province Lands, Provincetown.	M. F. Roach Company	April 29 1952	Completed July 27 1953	111,930.46
1215	Consultant services for design and construction of Town Pier, Plymouth.	Duffill Associates, Inc.	April 8 1952	In progress	
1217	Construction of bathhouse at Orient Heights Beach, East Boston.	Rich Brothers Construction Company, Inc.	Jan 6 1953	Completed Feb 26 1954	276,179.69
1219	Dredging at Town Wharf, Plymouth.	Bay State Dredging and Contracting Company	May 20 1952	In progress	
1220	Consulting services and supervision of construction of Waterways Division projects.	Duffill Associates, Inc.	May 27 1952	In progress	
1225	Construction of new timber pier; timber walkway; excavate below water, and removal of existing pier and all incidental construction at Town Pier, Plymouth.	Bay State Dredging and Contracting Co.	June 24 1952	Completed June 20 1953	141,516.02



CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
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<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1227	Consulting services for supervision of construction of bathhouse on Province Lands, Provincetown.	Mario V. Caputo	May 13 1952	Completed July 27 1953	\$2,518.44
1233	Consulting services for preparing plans, specifications, and for supervision of construction of Waterways Division projects.	Duffill Associates, Inc.	May 27 1952	In progress	
1239	Dredging a mooring basin in Nantucket Harbor and removing shoals from approach channel north of Brant Point, Nantucket.	North Atlantic Dredging Company	Aug 29 1952	Completed July 11 1953	54,900.00
1248	Channel improvement, Charles River, Milford.	Colonna Brothers, Inc.	July 10 1952	Completed Dec 16 1953	30,371.72
1250	Consulting services for contract plans, specifications and supervision of construction for play and park areas at Orient Heights Beach, East Boston.	John Guarino	July 8 1952	Completed June 12 1953	3,497.00
1252	Consulting services for plans, specifications and supervision of construction on Waterways Division projects.	Duffill Associates, Inc.	Oct 7 1952	In progress	
1260	Repairing breakwater at Hyannisport, Barnstable.	Bay State Dredging and Contracting Company	Aug 26 1952	Completed Jan 4 1954	115,140.00
1264	Sewer improvements, Stores Building, State Fish Pier, Gloucester.	Hagstrom Co., Inc.	Sept 30 1952	Completed May 18 1953	40,979.28
1276	Dredging two areas in Scituate Harbor, Scituate.	Bay State Dredging and Contracting Co.	Nov 4 1952	Completed Aug 8 1953	288,740.00

CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
PUBLIC WORKS, AND IN FORCE DURING THE YEAR ENDING JUNE 30, 1954.

<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1283	Consultant engineering services on Waterways projects.	Duffill Associates, Inc.	Dec 1 1952	In progress	
1284	Water supply system for bath-house at Province Lands in Provincetown.	Cannons, Inc.	May 27 1953	Completed Aug 31 1953	10,797.15
1287	Dredging in Bass River in Dennis and Yarmouth.	Bay State Dredging and Contracting Co.	Dec 23, 1952	Completed Sept 10 1953	146,448.20
1290	Construction of bulkhead and pier at Falmouth Inner Harbor, Falmouth.	Turner & Breivogel, Inc.	Dec 29, 1952	Completed June 25 1953	39,112.08
1292	Reconstruction of stone jetty at Waquoit Bay, Falmouth.	Joseph Perry	Dec 29 1952	Completed Oct 17 1953	18,094.50
1293	Construction of stone jetty at Little Harbor, Wareham.	Gallo Construction Company, Inc.	Dec 29, 1952	Completed July 24 1953	9,525.80
1297	Dredging basin in Green Pond, Falmouth.	New England Dredge and Dock Company	Dec 30 1952	Completed July 25 1953	60,685.52
1300	Dredging channel and basin in Saugus River, Lynn and Saugus.	Bay State Dredging and Contracting Co.	Jan 2 1953	Completed Dec 21 1953	201,990.00
1303	Construction of retaining wall at Rock Harbor, Orleans.	Gallo Construction Company, Inc.	Feb 3 1953	Completed Sept 28 1953	36,396.50
1312	Consultant engineering services on Waterways projects.	Duffill Associates, Inc.	Jan 27 1953	In progress	
1313	Construct timber retaining wall with earth fill, and excavation in Wellfleet Harbor, Wellfleet.	J. F. White Contracting Company	June 1 1953	Completed Feb 2 1954	76,899.70
1314	Relocation of section of channel of Green River, Williamstown.	Americo Bruschi and Angelo Bruschi	May 25 1953	Completed Aug 13 1953	20,195.00
1315	Beach improvement, New Silver	Joseph Perry	May 25 1953	Completed Aug 13 1953	2,566.00

CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
PUBLIC WORKS, AND IN FORCE DURING THE YEAR ENDING JUNE 30, 1954.

<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1318	Reconstruction and extension of easterly jetty at entrance to West Bay, Barnstable.	Turner & Breivogel, Inc.	June 8 1953	Completed Dec 9 1953	35,045.00
1319	Wharf repairs at Mattapoissett Harbor, Mattapoissett.	Joseph Perry	June 8 1953	Completed Nov 13 1953	23,862.50
1320	Stream improvement, South River, Conway.	B and M Construction Co	June 1 1953	Completed Aug 31 1953	6,633.25
1321	Sand fill fore shore improvement, Plum Island, Newbury and Newburyport.	North Atlantic Dredging Company	May 7 1953	Completed July 30 1953	489,200.00
1322	Beach improvements, Silvershell Beach and Butlers Point, Marion.	Joseph Perry	June 8 1953	Completed July 25 1953	12,594.75
1323	Reconstruction of jetty at Waquoit Bay, Falmouth.	Joseph Perry	June 8 1953	Completed Oct 8 1953	20,445.00
1324	Excavation of South River Basin, Marshfield and Scituate.	Bradford Weston, Inc.	June 9 1953	Completed Aug 11 1953	21,000.00
1325	Beach improvement work at Deep Hole Road, Harwich.	F. V. Lawrence, Inc.	July 6 1953	Completed Oct 3 1953	12,972.00
1326	Repairs to Plymouth Rock Canopy, Plymouth.	Carmine Antonellis	June 23 1953	Completed Sept 30 1953	4,150.25
1327	Dredging channel to East Boston Yacht Club.	North Atlantic Dredging Company	July 16 1953	Completed October 22 1953	40,591.34
1329	Roof plan and details for re-roofing project - Cold Storage Building, Fish Pier, Gloucester.	Burgess and Blacker Co.	June 23 1953	Completed Dec 14 1953	14,440.00
1330	Consulting services on roof repairs, Cold Storage Building, Fish Pier, Gloucester.	Charles A. Earley	June 12 1953	Completed Dec 14 1953	922.00



CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
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<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1331	Construction of stone mound at Harbor View Road, Barnstable.	Fish and Fonseca	Aug 24 1953	Completed Feb 20 1954	10,800.00
1332	Water treatment system for bath-house, Province Lands, Provincetown.	Frank Joy	Feb 8 1954	In progress	
1333	Dredging basin at Jeffries Point Yacht Club, East Boston.	Bay State Dredging and Contracting Co.	Sept 10 1953	Completed Oct 1 1953	4,640.00
1334	Bid rejected, October 14, 1953.				
1335	Dredging West Bay entrance channel and Great Bay basin, Barnstable.	New England Dredge and Dock Company	Oct 14 1953	Completed Dec 30 1953	53,293.30
1336	Reconstruction of portion of seawall at Point Shirley, Winthrop.	John J. Botti	Oct 14 1953	Completed Dec 29 1953	6,840.00
1337	Beach restoration and dredging, Parkers River, Yarmouth.	John Gallo	Oct 19 1953	Completed Feb 19 1954	32,800.00
1338	Protection of bluff at Vineyard Haven, and placing fill, Oak Bluffs.	Turner and Breivogel, Inc.	Oct 26 1953	Completed Jan 21 1954	14,270.76
1339	Construction of seawall at Duxbury Beach, Duxbury.	Del Prete Construction Company, Inc.	Nov 2 1953	Completed June 15 1954	110,313.37
1340	Construction of drainage conduit in Southbridge.	Ciesla Brothers, Inc.	Nov 2 1953	Completed Feb 1 1954	14,549.60
1341	Channel excavation and river bed grading in Hoosic River, Adams.	East Side Construction Company, Inc.	Oct 23 1953	Completed Nov 17 1953	386.00
1342	Removal of wooden piles in Spy Pond, Arlington.	Robert Mead	Nov 2 1953	Completed Dec 18 1953	1,424.00
1343	Consultant services on Immigration Shed, State Pier, New Bedford.	Ganteaume & McMullen	Oct 15 1953	Completed Nov 27 1953	2,000.00

CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
PUBLIC WORKS, AND IN FORCE DURING THE YEAR ENDING JUNE 30, 1954.

<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1344	Recapping and placing steel sheeting in front of section of seawall at Brant Rock, Marshfield.	Joseph Perry	Nov 12 1953	Completed Dec 15 1953	3,850.00
1345	Survey of Great Ponds.	Peter K. Beshara, Jr.	Oct 28 1953	In progress	
1346	Construction of flood control pumping station, Westfield.	R. Zoppo Co., Inc.	May 3 1954	In progress	
1347	Furnishing and installing steel water pipe in timber shed, State Pier, New Bedford.	Jeremiah Coholan	Nov 17 1953	Completed Feb 26 1954	5,975.00
1348	Relocating and repairing sections of seawall at Sand Hills, Scituate.	Ernest Anastasio	Nov 30 1953	Completed March 1 1954	7,633.00
1349	Boring <del>s</del> for pumping station at Westfield.	Porter and Desmond	Dec 16 1953	Completed Jan 29 1954	728.25
1350	Sand fill and riprap at seawall in Brant Rock, Marshfield.	Ernest Anastasio	Jan 4 1954	Completed Mar 31 1954	9,380.00
1351	Construction of two stone groins at Popponesset Beach, Mashpee.	Joseph Perry	Dec 30 1953	Completed April 9 1954	6,906.25
1352	Construction of four groins at four certain locations in Brewster.	Joseph Perry	Dec 30 1953	Completed May 14 1954	15,182.15
1353	Construction of stone groin at Town Neck Road, Sandwich.	Fish and Fonseca	Jan 11 1954	Completed <del>May</del> April 30 1954	8,600.00
1354	Dredging channel and basin at Green Harbor, Marshfield.	North Atlantic Dredging Company	Feb 8 1954	Completed April 21 1954	60,508.80
1355	Consultant engineering services on control and improvement, Sudbury and Concord Rivers.	Howard M. Turner	March 31 1954	In progress	

CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
PUBLIC WORKS, AND IN FORCE DURING THE YEAR ENDING JUNE 30, 1954.

<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1356	Dredging sand at Dunbars Point and disposal of same at Kalmus Park, Barnstable.	New England Dredge and Dock Company	Jan 20 1954	Completed Mar 17 1954	49,000.00
1357	Dredging anchorage basin in Jones River, Kingston.	Bay State Dredging and Contracting Co.	Feb 8 1954	Completed May 1 1954	29,868.66
1358	Dredging in three locations in South River, Marshfield, Scituate.	North Atlantic Dredging Company	Feb 8 1954	Completed Mar 17 1954	31,920.00
1359	Reconstruction of portion of seawall at Point Shirley, Winthrop.	Hen-Ray Construction Company, Inc.	Feb 15 1954	Completed June 30 1954	16,477.00
1360	Repairs and alterations to existing dam at Charles River, Newton-Wellesley.	Michael Salimando	April 5 1954	In progress	
1361	Construction of four timber finger piers at town wharf, Hyannis Harbor, Barnstable.	Turner and Breivogal, Inc.	Feb 24 1954	In progress	
1362	Dredging two areas in Scituate Harbor, Scituate.	Bay State Dredging and Contracting Co.	Feb 24 1954	In progress	
1363	Consultant services on surveys, etc., on Ipswich River.	Dana F. Perkins & Sons, Inc.	Feb 16 1954	In progress	
1364	River improvements and channel excavation, Shute Brook and Saugus River, Saugus.	Frank DiCenso	Mar 15 1954	Completed June 16 1954	22,273.84
1365	Borings in Phinneys Harbor, Bourne.	American Drilling Company, Inc.	Mar 16 1954	Completed April 3 1954	415.60
1366	Construction of stone mound and shore protection, Fourth Cliff, Scituate.	Bradford Weston, Inc.	Mar 15 1954	In progress	



CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
PUBLIC WORKS, AND IN FORCE DURING THE YEAR ENDING JUNE 30, 1954.

<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1367	Shore protection, seawall, and bank reconstruction at Glades Road, Scituate.	Del Prete Construction Company, Inc.	Mar 29 1954	In progress	
1368	Chlorination building and services, Orient Heights Beach, East Boston.	J. J. Bonavire, Inc.	April 21 1954	In progress	
1369	Consultant services on certain Waterways Division projects.	Cleverdon, Varney and Pike	March 10 1954	Completed May 10 1954	2,622.41
1370	Consultant services on certain Waterways Division projects.	Cleverdon, Varney and Pike	March 10 1954	Completed May 5 1954	609.84
1371	Timber Piles and framing, excavation and riprap at Maraspin Creek, Barnstable.	Gallo Construction Company, Inc.	March 29 1954	In progress	
1372	Placing stone at town pier, Wellfleet Harbor, Wellfleet.	Turner and Breivogel, Inc.	April 5 1954	Completed May 26 1954	5,553.45
1373	Stone groin and placing fill at Pleasant Road, Harwich.	F. V. Lawrence, Inc.	April 5 1954	Completed June 29 1954	5,920.00
1374	Two bridges over Pine Tree Brook in Milton.	Earl Brown, Inc.	June 2 1954	In progress	
1375	Stone mound and four stone groins in Nantucket Sound, Oak Bluffs.	Turner and Breivogel, Inc.	April 12 1954	In progress	
1376	Dredging at Witchmere Harbor, Harwich.	Bay State Dredging and Contracting Co.	April 15 1954	In progress	
1377	Dredging at Cotuit Bay entrance, Barnstable.	Bay State Dredging and Contracting Co.	April 15 1954	In progress	
1378	Consultant services on survey of Assabet River, Westboro.	MacCarthy Engineering Service, Inc.	March 29 1954	In progress	

CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
PUBLIC WORKS, AND IN FORCE DURING THE YEAR ENDING JUNE 30, 1954.

<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1379	Two stone groins in Nantucket Sound, Dennis.	Joseph Perry	April 30 1954	In progress	
1381	Excavation of basin at Rock Harbor, Eastham.	Turner and Breivogel, Inc.	May 17 1954	In progress	
1382	Extension of bulkhead at Rock Harbor, Orleans.	Turner and Breivogel, Inc.	May 17 1954	In progress	
1383	Construction of three groins, reconstruction of jetty, and extension of jetty at Sesuit Harbor, Dennis.	Joseph Perry	June 21 1954	In progress	
1384	Stone mound at Scituate Yacht Club, and placing riprap at Second and Third Cliffs, Scituate.	Bradford Weston, Inc.	May 17 1954	In progress	
1385	Consultant services on survey of portions of Weweantic River and Westport Harbor.	Walter E. Rowley	April 12 1954	In progress	
1387	Work on Hovey Dam, Hovey Pond, North Grafton.	Gunite Restoration Company, Inc.	June 10 1954	In progress	
1388	Riprap at Ocean Bluffs, Marshfield.	Bradford Weston, Inc.	June 8 1954	In progress	
1389	Consultant services on certain Waterways Division projects.	Cleverdon, Varney and Pike	April 29 1954	In progress	
1390	Stone mound construction and changing existing drainage at town landing near Harbor Cove, Gloucester.	Timothy F. McCarthy	June 2 1954	In progress	
1391	Dredging in outer channel of Hyannis Harbor, Barnstable.	Bay State Dredging and Contracting Co.	May 24 1954	In progress	

CONTRACTS MADE BY THE DIVISION OF WATERWAYS, DEPARTMENT OF  
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<u>CONTRACT NO.</u>	<u>WORK</u>	<u>CONTRACTOR</u>	<u>DATE OF CONTRACT</u>	<u>CONDITION OF WORK</u>	<u>CONTRACT COST</u>
1392	Beach improvement, Town Beach, Yarmouth.	Joseph Perry	June 2 1954	In progress	
1393	Dredging at Palmer Cove and Dion's boatyard, Salem.	Bay State Dredging and Contracting Co.	May 27 1954	In progress	
1394	Consultant services on certain Waterways Division projects.	Duffill Associates, Inc.	April 26 1954 (retroactive)	Completed June 24 1953	6,176.78
1395	River improvements, channel ex- cavation and slope paving in Pine Tree Brook in Milton.	John J. Botti	June 14 1954	In progress	
1396	Fish ladder on Indian Head River, Hanover-Pembroke.	Del Prete Construction Company, Inc.	June 14 1954	In progress	
1397	Removal of wreck from Clarks Cove, New Bedford.	Joseph Perry	June 2 1954	In progress	
1400	Stone revetment and gravel fill at Housatonic River, Stockbridge.	B and M Construction Company	June 21 1954	In progress	
1402	Seawall and miscellaneous work at entrance to State Pier, Plymouth.	F. V. Lawrence, Inc.	June 18 1954	In progress	
1403	Consultant services on repair of Shaker Mill Dam, West Stockbridge.	Howard M. Turner	May 3 1954	In progress	
1405	Consultant services on bulkhead and pier construction, and dredging in Oak Bluffs Harbor.	Crandall Dry Dock Engineers, Inc.	June 9 1954	In progress	
1408	Consultant services on survey on stream clearance work in Peabody.	Dana F. Perkins & Sons, Inc.	June 8 1954	In progress	
1409	Consultant services on survey, etc., on conduit construction in Shute Brook in Saugus.	Charles T. Main, Inc.	June 28 1954	In progress	



FEDERAL APPROPRIATIONS AND EXPENDITURES  
COMMONWEALTH OF MASSACHUSETTS

Federal appropriations and expenditures for the improvement of rivers and harbors in Massachusetts from the establishment of the Government to the close of the fiscal year ending 30 June 1954 are shown in the following tables:

TABLE NO. 1 - Localities at which work was done during the  
Fiscal Year ending 30 June 1954:

<u>LOCALITY</u>	<u>APPROPRIATIONS</u>	<u>EXPENDITURES</u> <u>(costs)</u>
Boston Harbor	\$ 19,805,944 (1)	\$ 19,819,249
Town River	409,715 (2)	371,383
Dorchester Bay & Neponset River	131,176	130,342
Plymouth Harbor	756,274 (3)	855,017
Cape Cod Canal	44,249,899	44,185,777
Cross Rip Shoals, Nantucket Sound	66,855	66,855
Pollock Rip Shoals, Nantucket Sound	1,118,010	1,818,009
Cuttyhunk Harbor	413,774 (4)	425,543
Newburyport Harbor	757,547	757,480
Gloucester Harbor & Annisquam River	734,395	734,111
Mingham Harbor	81,126	80,119
Provincetown Harbor	391,962	389,582
Fall River Harbor	3,362,467	3,335,902
	<hr/> \$72,279,144	<hr/> \$ 72,969,369

(1) Exclusive of \$17,767.37 Contributed Funds.

(2) Exclusive of \$111,763.00 Contributed Funds.

(3) Exclusive of \$108,400.00 Contributed Funds.

(4) Exclusive of \$ 61,643.00 Contributed Funds.

TABLE NO. 2 - Localities at which no work was done during the  
Fiscal Year ending 30 June 1954:

LOCALITY	APPROPRIATIONS	EXPENDITURES
Ipswich Harbor	\$ 7,769	\$ 7,769
Merrimack River	517,752	517,752
Powow River	50,941 (1)	50,941 (1)
Essex River	81,809	81,809
Sandy Bay, Cape Ann	1,941,478	1,941,478
Rockport Harbor	91,229	91,229
Beverly Harbor	247,766 (2)	247,766 (2)
Manchester Harbor	23,986	23,986
Salem Harbor	107,957	107,957
Marblehead Harbor	584	584
Lynn Harbor	857,544	857,544
Winthrop Harbor	8,993	8,993
Malden Harbor	119,950 (3)	119,950 (3)
Weymouth Back River	75,741 (4)	75,741 (4)
Cohasset Harbor	10,000	10,000
Scituate Harbor	313,818	313,818
Duxbury Harbor	37,000	37,000
Kingston Harbor	8,940	8,940
Wareham Harbor	95,997	95,997
Wellfleet Harbor	11,350	11,350
Hyannis Harbor	253,648	253,648
Bass (Harbor) River	20,150 (5)	20,150 (5)
Edgartown Harbor	45,614 (6)	45,614 (6)
Vineyard Haven	82,573	82,573
Menemsha Creek (Martha's Vineyard)	56,926	69,425
Little Harbor, Woods Hole	18,000	18,000
Woods Hole Channel	350,260	350,260
Canapitsit Channell	9,113	9,113
Westport River	3,000	3,000
Taunton River	475,811	475,811
Salem Harbor	109,500	109,500
Mystic River	1,114,723 (7)	1,114,723
Weymouth Fore River	1,131,283	1,131,283
Channel, Buzzards Bay to		
Buttermilk Bay	31,676	31,676
Chatham (Stage) Harbor	52,728	52,261
Harbor of Refuge, Nantucket	779,617	779,617
New Bedford & Fairhaven Harbor	2,503,725 (8)	2,502,248
	<u>\$11,678,951</u>	<u>\$11,689,506</u>

- (1) Exclusive of \$ 5,000 contributed funds.  
 (2) Exclusive of \$100,000 contributed funds.  
 (3) Exclusive of \$ 62,000 contributed funds.  
 (4) Exclusive of \$ 20,000 contributed funds.  
 (5) Exclusive of \$ 10,000 contributed funds.  
 (6) Exclusive of \$ 12,500 contributed funds.  
 (7) Exclusive of \$100,000 contributed funds.  
 (8) Exclusive of \$ 20,400 contributed funds.

DEPARTMENT OF PUBLIC WORKS - DIVISION OF WATERWAYS

RECEIPTS

DEPARTMENT INCOME  
(General Revenue)

For 12 months  
ending  
June 30, 1954

Certified Copies of Documents	90.00
Licenses and Permits, Dumping OBH	4,958.61
License Fees, Boston Harbor District	500.00
New Bedford Pier	50,860.92
Plymouth Pier	50.00
Province Lands	545.00
Gloucester Fish Pier	59,947.94
Rents - Boston Harbor District	2,125.00
Rents - Fall River Pier	57,500.00
Rents - Other	206.17
Sales	1,045.00
Miscellaneous	153.10
Reimbursement for Services	3,967.51
(Intrafund Receipts)	<u>181,949.25</u>

IMPROVEMENT OF RIVERS  
AND HARBORS TRUST FUND  
(Chapter 91 - General Laws)

Contributions from Towns, Individuals and Others

Credited to:

Rivers and Harbors	2202-05-00	98,750.00
Rivers and Harbors	7622-01-00	193,577.50
Rivers and Harbors	8254-26-00	67,500.00
Stream Clearance	2900-41-00	650.00
Repairing Damages	2202-09-18	<u>11,500.00</u>
		371,977.50



SUMMARY OF EXPENDITURES BY DIVISION OF WATERWAYSFor 12 months  
ending  
June 30, 1954General Expenses

Waterways Administration	2202-03-00		219,390.25
Improvement of Rivers & Harbors	2202-05-00	165,537.38	
New Bedford Pier, Operation & Maintenance	2202-07-00	26,206.59	
Plum Island, Channel	2220-32-00	1,418.37	
Plymouth Property, Expenses of	2202-06-00	5,697.72	
Province Lands, Expenses of	2202-20-00	13,952.84	
Repairing Damages	2202-09-00	55,372.51	
Stream Clearance	2900-41-00	55,401.68	
Wilmington, Swamp Lands, Investigation	2220-40-00	<u>11,958.04</u>	335,545.13

RECREATION AREA, EAST BOSTON  
(Authorized by Ch 431 - Acts 1949)

Bathhouse & Recreational Facilities	7722-83-00		233,060.12
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CAPITAL OUTLAY

Concord & Sudbury Rivers, Control & improvement	8254-27-00	1,652.80	
East Boston, Dredging Channel (from Airport Loan)	8315-22-00	40,811.63	
Fall River Harbor Terminal Facilities Loan			
8313-00-00		4,016.66	
7722-84-00		<u>169,005.48</u>	
Flood Control Works, Westfield	7822-01-00	173,022.14	
Improvement of Rivers & Harbors		1,246.86	
7722-88-00		72,774.41	
7622-01-00		1,457,394.27	
8254-26-00		<u>68,836.21</u>	
		1,599,004.89	
Plum Island Seawall & Other Protective Measures	7622-02-00	490,111.80	
Provincetown Bathhouse	7918-87-00	48,452.44	
Salisbury Beach Improvements	7710-02-00	<u>43,880.01</u>	2,398,182.57

SPECIALS

Gloucester Fish Pier Repairs	2220-42-00	22,769.59	
Great Ponds - Surveys	2220-21-00	9,443.58	
Williams River Improvements	2220-46-00	<u>3,268.80</u>	<u>35,481.97</u>
	TOTAL		3,221,660.04

DIVISION OF PUBLIC BEACHES

FISCAL YEAR 1954

The Division of Public Beaches was activated October 1, 1953, and most of the remainder of the fiscal year was spent in becoming organized and planning for facilities that were to be opened in the following year.



# *The Commonwealth of Massachusetts*

*Department of Public Works*

*Office of the Commissioner*

*100 Nashua Street, Boston 14*

December 31, 1953

PROGRESS REPORT  
ON  
ACCELERATED HIGHWAY PROGRAM  
(CHAPTER 556, ACTS OF 1952)

To His Excellency, Christian A. Herter, Governor,  
And the Honorable Senate and House of Representatives  
Of the Commonwealth of Massachusetts

Section 10 of Chapter 556, Acts of 1952 directed the MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS to file detailed progress reports with the Governor and with the Clerk of the House of Representatives on December 31, 1953, December 31, 1954 and December 31, 1955, and a final report on or before December 31, 1956 relative to all projects undertaken under the provisions of this Act. THIS IS THE DEPARTMENT'S PROGRESS REPORT FOR DECEMBER 31, 1953.

Sections 4 and 5 of the above Act authorize and direct the Department to expend a total of one hundred eighty-four million dollars, substantially as follows:



## BOSTON METROPOLITAN AREA

(Section 4) Not to exceed 74 million dollars for projects in the "Boston Metropolitan Area".

## OUTSIDE METROPOLITAN BOSTON

(Section 5) Not to exceed 110 million dollars for projects "... exclusive of Metropolitan Boston", including:

Not less than 12 million dollars in each of the following four areas:

Area 1 - West of the Connecticut River, including therein any bridges across said river with their approaches and connections.

Area 2 - Between the Connecticut River and the easterly boundary line of Worcester County, excluding any bridges across said river with their approaches and connections.

Area 3 - In Essex, Middlesex and Norfolk Counties, including Route 128 (Northern Circumferential Highway).

Area 4 - In Bristol, Plymouth, Barnstable, Dukes and Nantucket Counties.

## PROGRESS

As of December 1, 1953, projects involving approximately \$40,000,000 were under construction or had been advertised for bids and will be under construction very shortly. In addition, preliminary studies have been completed and work is proceeding on plans and specifications for all of the other listed projects.

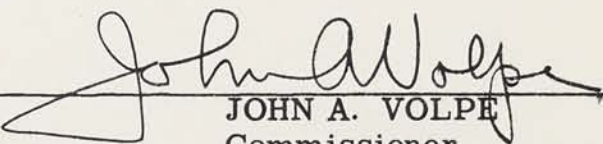
Section 11 of the Act requires that all contracts for projects authorized by this act shall be entered into not later than December 1, 1956. Based on the progress to date, it appears that all projects will be under contract considerably in advance of that date.

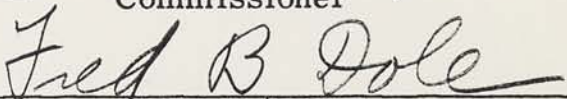
Preliminary studies and plans are also proceeding for extension or completion of limited access highway and other major routes included in the master highway plans and accelerated highway program which cannot be included in this program due to lack of sufficient funds, and which will therefore require additional appropriations by the legislature.


Attached is a program listing major projects scheduled to be undertaken, and showing the estimated allocation of funds.

Respectfully submitted,

MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS

  
\_\_\_\_\_  
JOHN A. VOLPE  
Commissioner

  
\_\_\_\_\_  
FRED B. DOLE  
Associate Commissioner

  
\_\_\_\_\_  
FRANCIS V. MATERA  
Associate Commissioner

PROGRAM OF PROJECTS

1952 Bond Issue - (Chapter 556, Acts of 1952)

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BOSTON METROPOLITAN AREA

	<u>Estimated Allocation</u>
BOSTON (John F. Fitzgerald Expressway)	\$ 40,000,000
CHELSEA (Northeast Expressway)	8,000,000
EVERETT (Routes 1 and 1A)	2,800,000
MILTON (Southeast Expressway)	3,150,000
WINCHESTER (Elimination of Grade Crossing)	6,550,000
BOSTON-SOMERVILLE (Sullivan Square) (Part)	1,250,000
MISCELLANEOUS PROJECTS (Including Traffic Devices)	1,850,000
ENGINEERING	<u>10,400,000</u>
TOTAL	\$ 74,000,000

OUTSIDE METROPOLITAN AREA

<u>AREA 1</u>	<u>Estimated Allocation</u>
CHARLEMONT-BUCKLAND-SHELBURNE (Route 2)	\$ 4,000,000
CUMMINGTON (Route 9)	1,475,000
GREAT BARRINGTON (Route 7)	800,000
HANCOCK (Route 43)	175,000
HANCOCK-LENOX (Route 20)	45,000
LEE (Meadow St.-Bridge over Housatonic River)	235,000
NEW ASHFORD (Route 7)	500,000
NORTH ADAMS (Route 8-Bridge over Hoosic River)	140,000
NORTH ADAMS (Route 8-Bridge over Tunnel Brook)	45,000
SPRINGFIELD-AGAWAM-WEST SPRINGFIELD (Route 5 - Columbus Ave. to North End Bridge)	<u>10,200,000</u>
TOTAL	\$ 17,615,000



OUTSIDE METROPOLITAN AREA (Cont.)

	<u>AREA 2</u>	<u>Estimated Allocation</u>
ATHOL-ORANGE (Route 2)		\$ 4,000,000
BOLTON (Route 117)		530,000
BOYLSTON (Route 140)		250,000
BRIMFIELD (Route 20)		50,000
BROOKFIELD-WEST BROOKFIELD (Route 9)		90,000
CHARLTON (Route 31-Bridge over R.R.)		285,000
CHICOPEE (Route 116)		90,000
FITCHBURG (Route 12-Depot Sq.)		290,000
FITCHBURG (Route 2A-Baker Bridge)		90,000
GRAFTON (Route 122)		80,000
GARDNER-HUBBARDSTON (Route 68)		310,000
HADLEY (Route 9)		270,000
MILLBURY-SUTTON (Route 146)		50,000
MONTAGUE (Route 2A-Bridge over Canal)		150,000
SOUTHBRIDGE (Route 93-Bridge over Quinebaug River)		120,000
SOUTHBRIDGE (Route 131-Bridge over Saundersdale Canal)		90,000
UPTON (Route 140)		320,000
UXBRIDGE (Route 122-Bridge over R.R.)		150,000
WARE (Route 9)		265,000
WARREN (Route 67)		415,000
WORCESTER (Lincoln Square)		<u>7,150,000</u>
	TOTAL	\$ 15,045,000
	<u>AREA 3</u>	<u>Estimated Allocation</u>
AMESBURY (Macy St.)		\$ 55,000
AMESBURY-NEWBURYPORT (Route 1)		2,950,000
AMESBURY-SALISBURY (Route 1)		3,000,000
ANDOVER (Route 28)		80,000

OUTSIDE METROPOLITAN AREA (Cont.)

AREA 3 (Cont.)	<u>Estimated Allocation</u>
BEDFORD (Route 3)	\$ 1,250,000
BEVERLY (Route 128)	40,000
BILLERICA-CHELMSFORD (Route 3 & Interchanges)	5,100,000
BOXFORD-ROWLEY-GEORGETOWN-NEWBURY (Route 1)	1,220,000
BURLINGTON (Route 3 & 128)	1,925,000
DEDHAM-WESTWOOD (Route 128)	5,000,000
HAVERHILL (Route 125)	45,000
LOWELL (Hunt's Falls Bridge)	1,215,000
MANCHESTER-ESSEX-GLOUCESTER (Route 128) (Part)	715,000
NEEDHAM-WELLESLEY (Route 128)	7,500,000
NEEDHAM-WESTWOOD-DEDHAM (Route 128)	<u>5,000,000</u>
TOTAL	\$ 35,095,000

<u>AREA 4</u>	<u>Estimated Allocation</u>
BARNSTABLE-SANDWICH-BOURNE (Route 6)	\$ 1,400,000
BARNSTABLE-YARMOUTH (Route 6)	1,500,000
BOURNE (Route 3)	30,000
BRIDGEWATER-RAYNHAM (Route 138)	1,000,000
BROCKTON (Route 138)	2,500,000
BROCKTON (Route 123)	30,000
BROCKTON-EASTON (Route 28)	110,000
BROCKTON-WEST BRIDGEWATER (Route 138)	4,525,000
CARVER (Route 44 - Bridge over Weweantic River)	40,000
DENNIS-YARMOUTH (Route 6)	1,600,000
FAIRHAVEN-MATTAPOISETT (Route 6)	875,000
FALL RIVER (Route 138)	2,500,000
FALMOUTH (Route 28)	125,000
NANTUCKET (Hummock Pond Road)	115,000

OUTSIDE METROPOLITAN AREA (Cont.)

<u>AREA 4 (Cont.)</u>	<u>Estimated Allocation</u>
ORLEANS (Route 28-Bridge over Salt Marsh)	\$ 95,000
PLYMPTON (Route 58)	20,000
PROVINCETOWN-TRURO (Route 6)	2,475,000
TRURO (South Highland Road)	<u>20,000</u>
TOTAL	\$ 18,960,000

SUMMARY

	<u>Estimated Allocation</u>
AREA 1	\$ 17,615,000
AREA 2	15,045,000
AREA 3	35,095,000
AREA 4	18,960,000
RESURFACING PROJECTS	4,000,000
TRAFFIC SAFETY DEVICES	2,000,000
MISCELLANEOUS PROJECTS	3,285,000
ENGINEERING	<u>14,000,000</u>
TOTAL	\$ 110,000,000



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#### Arlington

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#### Barnstable

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#### Bedford

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#### Brewster

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Conway

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Dartmouth

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Dennis

Hearing, stone mound repairs, dredging, stone groins and jetty reconstruction and extension

Duxbury

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East Boston

Construction of pedestrian overpass, bathhouse and chlorination building, dredging and parapet wall.

Eastham

Hearing and excavation of basin

Fairhaven

Report on improving harbor filed

Fall River

Eighth report relative to the improvement of facilities for maritime commerce in the Port of Fall River

Falmouth

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Hadley

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Hanover

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Harwich

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Mattapoisett

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Middleboro

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Middlefield

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Milford

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Milton

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New Bedford

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New Braintree

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Orleans

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Pembroke

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Pittsfield

Hearing

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Report to Clerk House of Representatives .

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Rochester

Report to General Court

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Sandwich

Hearing, jetty construction, shore protection, groin construction

Saugus

Hearing, channel and basin dredging, river improvements

Scituate

Hearing, report to clerk House of Representatives, dredging, excavation, seawall relocation and repair, stone mound construction and shore protection

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Stockbridge

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Hearing

Westfield

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Westport

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West Stockbridge

Hearing, reconstruction of Shaker Dam

Weymouth

Rules and regulations governing use of motor boats

Williamsburg

Hearing, stream clearance

Williamstown

Hearing, stream clearance and riprap

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Hearing



Winthrop

Hearing, reconstruction of existing seawall, rip rap work, shore protection, concrete seawall construction

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